



# IHASHING ACADEMY

TOP ASIA PACIFIC LIVE-CLASS  
BLOCKCHAIN & WEB3  
FUTURESILLS ACADEMY

## BOOKLET

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## 2026





# Introduction

**// Learn & Earn journey bridging the tech talent gap & empowering startup, creator & SME with Blockchain & Web3 future skills. //**

This programme will equip you with practical, cutting-edge blockchain technology with FutureSkills, preparing you for a successful career in any rapidly evolving field.

**Are you tired of traditional courses that feel outdated?  
Are you looking to learn something truly useful and practical?**

## Traditional School VS. FutureSkills Academy



Theory overload



Practical application



Single subject focus



Cross-disciplinary integration



Fixed mindset



Innovative thinking



Outdated knowledge



Cutting-edge technology





# Why FutureSkills?

**FutureSkills is a forward-thinking, technology-oriented, interdisciplinary set of practical skills. It cultivates both hard and soft skills through flexible learning methods, emphasizing continuous learning and industry collaboration to meet the demands of the rapidly evolving future workplace.**

## > Innovation-driven

**Solve real-world problems, not just theoretical exercises**

## > Cross-industries application

**Blockchain x AI x Any Industries, seamless integration**

## > Future-focused

**Develop adaptability for rapid changes & fast learning**





# Course Features

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## > Immersive learning

Hands-on experience in **ESG-compatible Green Blockchain** project development (Signum Network), apply as you learn



## > Innovation workshops

Spark creativity, cultivate design thinking



## > Industry mentors

First-hand experience sharing, aligned with market needs



## > Flexible learning

Attend classes after work/ class, 80-120 hours of intensive training





# Who should Take futureSkills Course?

## ✓ **Senior Leadership & Decision Makers**

Business leaders aiming to stay competitive in digital transformation

## ✓ **Product & Program Managers**

Professionals seeking innovative approaches to product development and management

## ✓ **Innovation Managers, Startups & Entrepreneurs**

Innovators eager to build ventures in blockchain and emerging technologies

## ✓ **Advisors & Business Analysts**

Industry experts committed to offering cutting-edge technological insights

## ✓ **Developers, Creators & Marketers**

Tech and creative talents looking to integrate blockchain into their specialties

## ✓ **Career Changers**

Working adults looking to pivot into high-growth tech industries

## ✓ **Global Opportunity Seekers**

Talents looking to build a career on the global stage

## ✓ **Secondary School Graduates**

Form 6 / Year 12 graduates seeking alternatives to traditional university paths/ overseas study

## ✓ **Lifelong Learners**

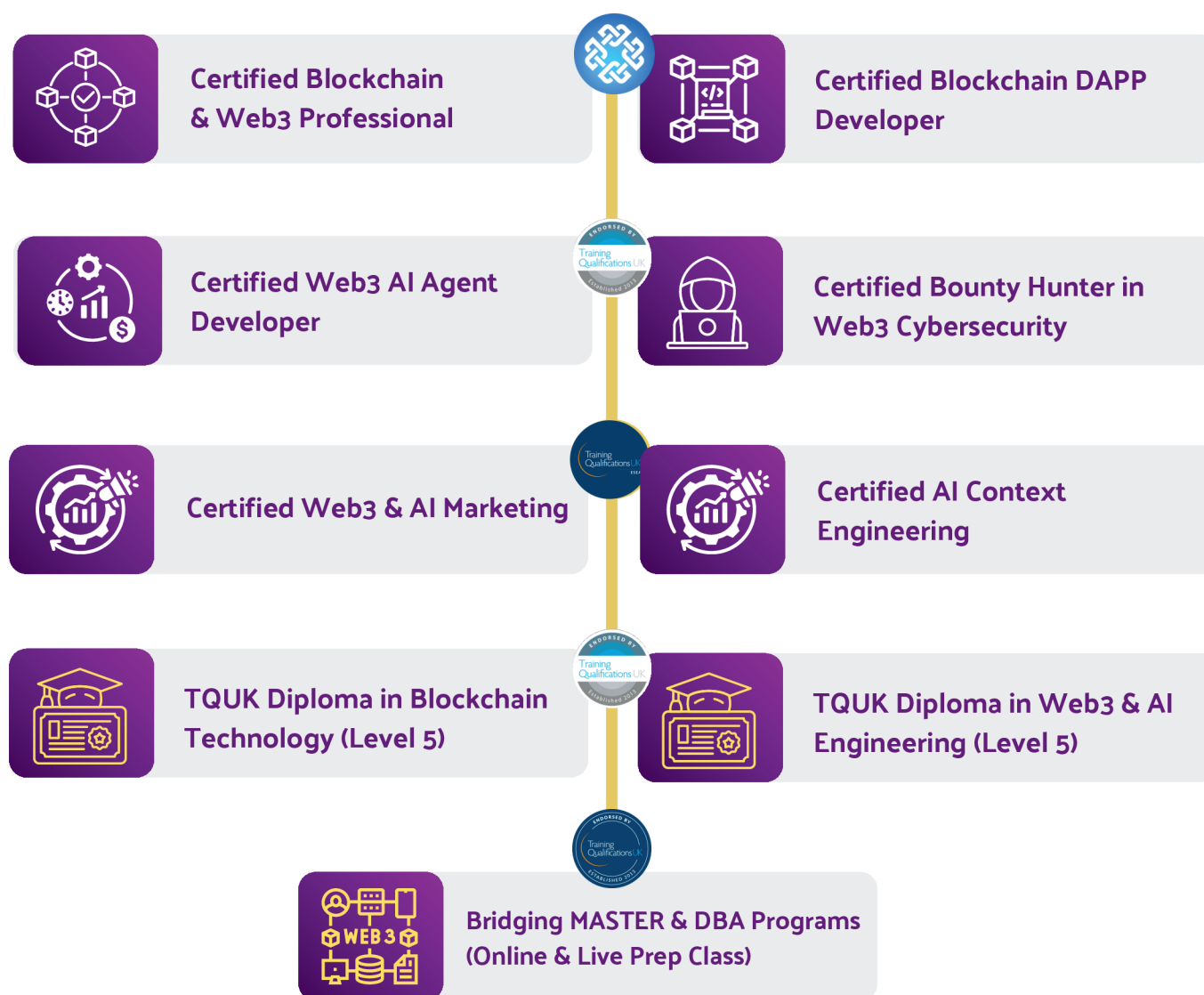
Professionals passionate about emerging tech and continuous growth







# Our Courses



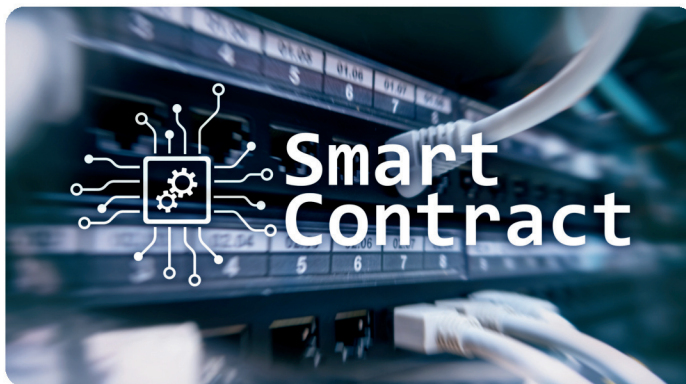


# Course Highlights

*"Unlocking AI-Driven Insights and Community Strategies for Web3 Engagement & Growth"*

## *Comprehensive, Practical & Intensive Curriculum:*

- Blockchain fundamentals and advanced web3 & AI concepts
- Cryptography and consensus mechanisms
- Smart contract development
- Decentralized application (DApp) creation
- Blockchain for business and enterprise solutions
- Capstone project and examination



## *Hands-on Projects:*

- Build your own blockchain token & NFT from scratch
- Develop and deploy smart contracts
- Create a functional DApp project
- Implement a real-world blockchain solution

## *Industry-Relevant Skills:*

- Taught by industry experts
- Web3 Stacks programming
- Web3.js & SIGNUM.JS integration
- Blockchain security best practices
- Tokenomics & cryptocurrency economics







### *Cutting-Edge Tools and Platforms:*

- IPFS for decentralized storage
- Popular blockchain explorer and wallet interfaces

### *FutureSkills Focus:*

- Critical thinking and problem-solving in blockchain contexts
- Blockchain project management
- Ethical considerations and governance in blockchain
- Interdisciplinary applications of blockchain technology



### *Career Development:*

- Blockchain & AI job market insights
- Portfolio building guidance
- Interview preparation for blockchain roles

### *Global Recognition:*

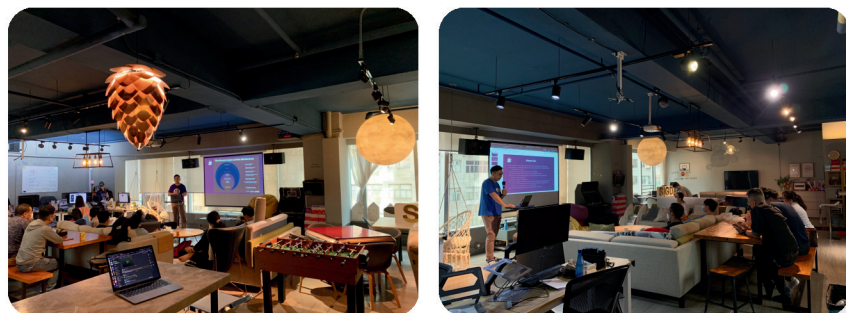
- TQUK, SIGNUM Network & SIGDAO Foundation endorsed
- Enhances opportunities for overseas study & employment (HK, UK, Australia, Canada)
- Aligned with international blockchain standards



### *Continuous Learning:*

- Access to updated course materials post-graduation
- Invitation to alumni events and networking opportunities





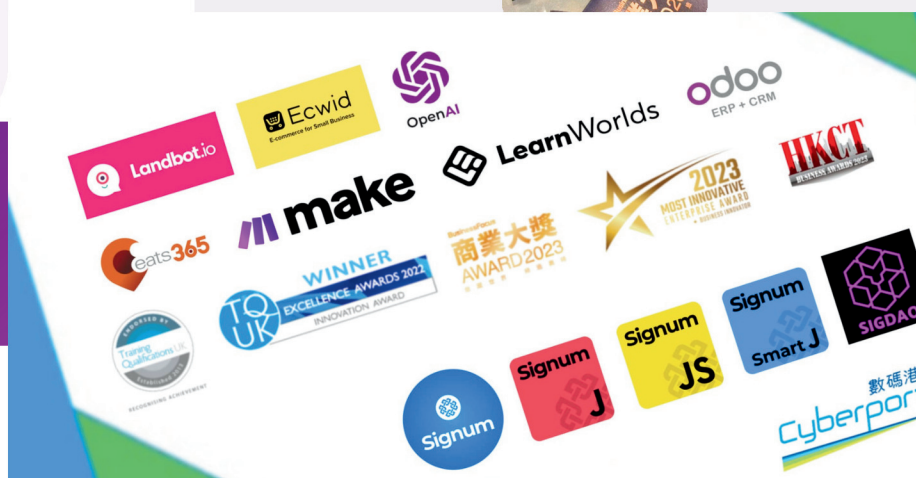
## Our Vibes



## Award-winning



Learn & Earn journey bridging the tech talent gap & empowering startup, creator & SME with Blockchain & Web3 future skills.



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Certified Blockchain & Web3 Professional



Course Outline

Course Fee: HKD 9,900.  
After Grants: HKD ---

Unit	Unit Content
<b>Unit 1:</b> Introduction to Blockchain (2 hours)	<ul style="list-style-type: none"><li>• Overview of blockchain technology</li><li>• History and evolution of blockchain</li><li>• Blockchain network architecture</li><li>• Blockchain consensus mechanisms (POW, POS, POC+)</li><li>• Types of blockchains (public, private, consortium)</li></ul> <div><b>1.1 Create your first paper wallet</b><ul style="list-style-type: none"><li>• Create your first Cryptocurrency Paper Wallet &amp; Gift Card</li></ul><b>1.2 Correct your blockchain, Web3 &amp; crypto perception</b><ul style="list-style-type: none"><li>• What is Blockchain, Web3</li><li>• Private Vs Public Blockchain</li><li>• Blockchain, Web3 Ecosystem</li><li>• Why Blockchain Network, Web3 is Secure</li><li>• What are Smart Contracts &amp; DApp</li></ul></div>
<b>Unit 2:</b> Cryptography and Security in Blockchain (2 hours)	<div><b>2.1 Bitcoin is not currency but asset</b><ul style="list-style-type: none"><li>• Bitcoin &amp; Blockchain, Web3 Relationship</li><li>• Coin vs Token vs NFT, RAW</li><li>• How Cryptocurrency works</li></ul><b>2.2 Sustainable blockchain</b><ul style="list-style-type: none"><li>• What is Mining &amp; Consensus Algo?</li><li>• POW vs POS vs POC+</li><li>• Blockchain Layer2 Solutions &amp; setup</li></ul><b>2.3 HODL Safe and DEX</b><ul style="list-style-type: none"><li>• Types of Cryptocurrency Wallets</li><li>• Centralized &amp; DeCentralized Exchanges</li><li>• Attacks: How Crypto Can Be Hacked</li><li>• Risk Management &amp; DeFi, Gamefi, Social-fi</li></ul></div>

\*Course content will be regularly updated to reflect current industry trends and real-world developments



<b>Unit 3:</b> Blockchain Scalability and Performance (3 hours)	<ul style="list-style-type: none"><li>• Blockchain scalability issues and solutions</li><li>• Signum Network's scalability solutions</li><li>• Sharding in Signum Network</li><li>• Signum Network's performance benchmarks</li><li>• Building high-performance DApps on Signum Network</li></ul>	<b>3.1 Hands on setup validator, nodes &amp; NFT, RWA</b>  <b>3.2 Blockchain, Web3 Digital Transformation for SME</b> <ul style="list-style-type: none"><li>• Benefits of using Blockchain Tech</li><li>• Adopt Blockchain, Web3 to your business</li><li>• Tokenize &amp; Create NFT, RWA for Biz</li></ul>
<b>Unit 4:</b> Blockchain Governance and Regulation (3 hours)	<ul style="list-style-type: none"><li>• Governance models in blockchain</li><li>• Regulatory landscape and compliance in blockchain</li><li>• Legal implications of blockchain technology</li><li>• Decentralized autonomous organizations (DAOs)</li><li>• Cryptocurrency taxation and reporting</li></ul>	<b>4.1 Blockchain, Web3 resources &amp; identify scam project</b> <ul style="list-style-type: none"><li>• Blockchain Tools and Platforms</li></ul> <b>4.2 Blockchain, Web3 Project Anti-mediaframing Analysis</b> <ul style="list-style-type: none"><li>• Blockchain Project Valuation by FCAS</li><li>• Predicting market price by market cap</li></ul>
<b>Unit 5:</b> Applications of Signum Network (4 hours)	<ul style="list-style-type: none"><li>• Signum Network</li><li>• Signum SDK - SignumJS &amp; SmartJ</li><li>• Writing and deploying smart contracts on Signum Network</li><li>• Decentralized Application (DApp) development on Signum Network</li><li>• Interacting with smart contracts using SmartJ</li></ul>	<b>5.1 Blockchain, Web3 Technology Stacks</b> <ul style="list-style-type: none"><li>• Web3 DApp &amp; Frontend framework</li><li>• Angular, React &amp; NextJS</li><li>• Frontend builder</li><li>• Blockchain, Web3 Platforms</li><li>• Ethereum &amp; Polygon &amp; Signum</li><li>• Smart contract programming</li><li>• Solidity &amp; Remix IDE &amp; IHOST dAPP builder</li><li>• SignumJS - SDK in Typescript</li><li>• SmartJ - Smart contract platform in Java</li><li>• Create first smart contracts &amp; token with SignumJS &amp; SmartJ</li></ul>

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## 2

## Certified Blockchain DAPP Developer



### Course Outline

Course Fee: HKD 25,000  
After Grants: HKD 12,500

Unit	Unit Content
<b>Unit 1:</b> Understand the InterPlanetary File System for Distributed Storage (7 hours)	<ul style="list-style-type: none"><li>• InterPlanetary File System (IPFS)</li><li>• IPFS architecture and components</li><li>• IPFS file system and data storage</li><li>• Integrating IPFS with Signum Network (Pinata)</li><li>• Distributed storage and data privacy in blockchain</li></ul> <b>1.1 Blockchain, Web3 Technology Stacks (continued)</b> <ul style="list-style-type: none"><li>• Distributed Storage Platforms (IPFS) - Pinata - working with IPFS gateway URLs</li></ul> <b>1.2 Build NFT, RWA Collectibles &amp; DApp Project by iHOST Web3 builder</b> <ul style="list-style-type: none"><li>• Interact IPFS with Pinata</li></ul>
<b>Unit 2:</b> Implementation for Smart Contract Development (7 hours)	<b>2.1 Build NFT, RWA Collectibles &amp; DApp Project by iHOST Web3 builder (continued)</b> <ul style="list-style-type: none"><li>• Deploy Smart Contract on Signum Network</li><li>• Smart contract programming</li><li>• Solidity &amp; Remix IDE &amp; iHOST dAPP builder</li><li>• SignumJS - SDK in Typescript</li><li>• SmartJ - Smart contract platform in Java</li><li>• Create first smart contracts &amp; token with SignumJS &amp; SmartJ</li><li>• List NFTs, RWAs on Signumart Marketplace</li><li>• Build DApp Project &amp; List on SIGDAO DApp Store!</li></ul>

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<p><b>Unit 3:</b> Blockchain Scalability and Performance (advanced) (7 hours)</p>	<ul style="list-style-type: none"> <li>Blockchain scalability issues and solutions</li> <li>Signum Network's scalability solutions</li> <li>Sharding in Signum Network</li> <li>Signum Network's performance benchmarks</li> <li>Building high-performance DApps on Signum Network</li> </ul>	<p><b>3.1 Hands on setup validator, nodes &amp; NFT, RWA</b></p> <p><b>3.2 Blockchain, Web3 Digital Transformation for SME</b></p> <ul style="list-style-type: none"> <li>Benefits of using Blockchain Tech</li> <li>Adopt Blockchain, Web3 to your business</li> <li>Tokenize &amp; Create NFT, RWA for Biz</li> </ul>
<p><b>Unit 4:</b> Blockchain Governance and Regulation (advanced) (10 hours)</p>	<ul style="list-style-type: none"> <li>"(ASEAN) Governance models in blockchain</li> <li>(ASEAN) Regulatory landscape and compliance in blockchain</li> <li>(ASEAN) Legal implications of blockchain technology</li> <li>(ASEAN) Decentralized autonomous organizations (DAOs)</li> <li>(ASEAN) Cryptocurrency taxation and reporting"</li> </ul>	<p><b>4.1 Blockchain, Web3 resources &amp; identify scam project</b></p> <ul style="list-style-type: none"> <li>Blockchain Tools and Platforms</li> </ul> <p><b>4.2 Blockchain, Web3 Project Anti-mediaframing Analysis</b></p> <ul style="list-style-type: none"> <li>Blockchain Project Valuation by FCAS</li> <li>Predicting market price by market cap</li> </ul>
<p><b>Unit 5:</b> Impact of Blockchain (11 hours)</p>	<ul style="list-style-type: none"> <li>Current and emerging impacts of blockchain across industries</li> <li>Transformative blockchain applications beyond cryptocurrency</li> <li>Societal changes driven by blockchain technology</li> <li>Economic and social implications of blockchain adoption</li> <li>Ethical considerations and challenges in blockchain implementation</li> </ul>	<p><b>5.1 What is NFT, RWA? Not just Art form!</b></p> <ul style="list-style-type: none"> <li>Technical definitions of NFT and RWA</li> <li>Token protocol (ERC20, ERC721 &amp; ERC1155)</li> <li>Web3 &amp; DAO Business Model</li> <li>NFT, RWA marketplace (Signumart, Opensea &amp; Magic Eden)</li> <li>NFT, RWA assets in Metaverse</li> </ul>

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## **5.2 Business Process Automation System Tools (MAKE.COM)**

- Development of Open API ecosystems
- Introduction and application of No-Code Tools
- Introduction and application of API connection software (MAKE.COM)
- Integration of daily operational processes through API automation
- 50 case studies of daily operational process automation
- Hands-on practical sessions

## **5.3 Developing Blockchain Web3 DApp with Open API Tools**

- In-depth introduction and connection of Open API tools
- Development and automation of Headless Vercel CMS
- SEO essentials, keyword optimization, Growth Hacking
- Basic application of Google/Matomo Analytics
- Configuration and connection of Payment gateways
- Blockchain wallet application and Web3.js & SIGNUM.JS integration
- Hands-on practical sessions

## **5.4 Establishing Automated AI Agents**

- Advanced Open API system integration
- Application examples
- Establishing automated lead generation and sales-oriented processes
- Process design and configuration
- Integration of AI Agents with Web3 DApp systems
- Hands-on practical sessions





## Course Outline

Course Fee: HKD 18,000  
After Grants: HKD 9,000

Unit		Unit Content
<b>Unit 1:</b> Introduction to GenAI Automation and API Integration (7 hours)	<ul style="list-style-type: none"><li>• Understand the fundamentals of business GenAI automation</li><li>• Learn about API integration in business processes</li><li>• Familiarize with MAKE.COM as a key automation tool</li><li>• Grasp the concept business flow automation</li><li>• Develop skills in creating practical automation examples</li></ul>	<p><b>1.1 Overview of business automation and API integration</b></p> <ul style="list-style-type: none"><li>• Introduction to key concepts in business process automation and the role of APIs in connecting different systems and applications.</li></ul> <p><b>1.2 Deep dive into MAKE.COM: features and applications</b></p> <ul style="list-style-type: none"><li>• Comprehensive exploration of MAKE.COM's capabilities, including its interface, integration options, and best practices for creating efficient automations.</li></ul> <p><b>1.3 Design and implementation of business flow automation</b></p> <ul style="list-style-type: none"><li>• Practical application of learned concepts to create a comprehensive business flow automation plan, covering various aspects of daily operations.</li></ul>
	<ul style="list-style-type: none"><li>• Master Open API development for Web3 applications</li><li>• Implement Headless Vercel CMS in DAPP development</li><li>• Apply SEO and Growth Hacking strategies for Web3 platforms</li></ul>	<p><b>2.1 Advanced Open API development methodologies</b></p> <ul style="list-style-type: none"><li>• In-depth study of Open API principles, focusing on creating robust and scalable APIs suitable for Web3 applications.</li></ul> <p><b>2.2 Integration of Headless Vercel CMS in Web3 applications</b></p> <ul style="list-style-type: none"><li>• Techniques for incorporating Headless Vercel CMS into Web3 DAPPs, enhancing content management capabilities in decentralized environments.</li></ul>

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		<p><b>2.3 SEO optimization and Growth Hacking for Web3 platforms</b></p> <ul style="list-style-type: none"><li>• Strategies for optimizing Web3 platforms for search engines and implementing growth hacking techniques specific to decentralized applications.</li></ul> <p><b>2.4 Developing Blockchain Web3 DApp with Open API Tools</b></p> <ul style="list-style-type: none"><li>• Configuration and connection of Payment gateways</li><li>• Blockchain wallet application and Web3.js &amp; SIGNUM.JS integration</li><li>• Smart contract Automation by iHost DApp builder</li><li>• Hands-on practical sessions</li></ul>
<p><b>Unit 3:</b> AI Agent Integration and Continuous Operational Automation (7 hours)</p>	<ul style="list-style-type: none"><li>• Develop and integrate a AI Agent for business automation</li><li>• Implement continuous operational capabilities</li><li>• Optimize resource allocation and reduce manual workload</li></ul>	<p><b>3.1 Designing and integrating AI Agents with existing systems</b></p> <ul style="list-style-type: none"><li>• Methods for creating and seamlessly integrating AI Agents into existing business automation frameworks.</li></ul> <p><b>3.2 Strategies for implementing continuous automated operations</b></p> <ul style="list-style-type: none"><li>• Techniques to ensure uninterrupted operation of automated systems, including failsafes, redundancies, and intelligent scheduling for constant productivity.</li></ul> <p><b>3.3 Resource optimization and workload reduction through automation</b></p> <ul style="list-style-type: none"><li>• Approaches to analyzing and optimizing resource allocation in automated systems, with a focus on reducing manual interventions and increasing efficiency in perpetual operational environments.</li></ul>

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## Course Outline

Course Fee: HKD 18,000  
After Grants: HKD 9,000

Unit	Unit Content
<b>Unit 1:</b> Introduction to Web3 and Its Impact on Digital Marketing (2 hours)	<ul style="list-style-type: none"><li>• Overview of Web3 concepts and technologies.</li><li>• Web3's influence on the digital marketing landscape.</li><li>• ASEAN &amp; Hong Kong's digital marketing landscape and Web3 adoption.</li></ul>
<b>Unit 2:</b> Web3 Market Research and Consumer Insights (2 hours)	<ul style="list-style-type: none"><li>• Using AI tools for Web3 market analysis.</li><li>• Implementing sentiment analysis for crypto and blockchain projects.</li><li>• Understanding Web3 communities and user behavior.</li></ul>
<b>Unit 3:</b> Web3 Content Creation and Optimization (3 hours)	<ul style="list-style-type: none"><li>• Creating content for decentralized platforms.</li><li>• Leveraging AI models for Web3-specific content generation.</li><li>• SEO strategies for Web3 projects and dApps.</li></ul>
<b>Unit 4:</b> Community Building and Management in Web3 (3 hours)	<ul style="list-style-type: none"><li>• Strategies for building engaged Web3 communities.</li><li>• Using decentralized social media platforms.</li><li>• Implementing chatbots and AI for community management.</li><li>• Discord Community Management: Best practices for managing Discord communities, including engagement strategies, moderation techniques, and using bots effectively.</li></ul>
<b>Unit 5:</b> Token Economics and Incentive Design (4 hours)	<ul style="list-style-type: none"><li>• Understanding tokenomics for marketing purposes.</li><li>• Designing effective airdrop and bounty campaigns.</li><li>• Leveraging NFTs for marketing and engagement.</li></ul>

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<b>Unit 6:</b> dApp & Token Listing Platforms (3 hours)	<ul style="list-style-type: none"><li>• Overview of popular dApp listing platforms such as:</li><li>• Dapp Platforms: Tracks and ranks decentralized applications across various protocols.</li><li>• Product Hunt: A platform for discovering new products, including dApps, where users can upvote their favorites.</li><li>• CoinGecko: A comprehensive cryptocurrency data platform that lists dApps alongside tokens, providing market insights.</li><li>• State of the dApps: A platform showcasing decentralized applications with detailed analytics on usage and performance.</li><li>• SIGDAO dApp Store: A launchpad dedicated to supporting green dApps, where projects can be listed, voted on, and funded by the community without hassle.</li></ul>
<b>Unit 7:</b> Predictive Analytics & Optimization for Web3 Marketing Campaigns (4 hours)	<ul style="list-style-type: none"><li>• Forecasting &amp; Key metrics performance for Web3 marketing campaigns.</li><li>• Using blockchain data for marketing insights.</li><li>• Implementing A/B testing automation &amp; optimization for decentralized applications.</li><li>• Using AI and blockchain data for predictive modeling.</li></ul>
<b>Unit 8:</b> Marketing Automation in Web3 (3 hours)	<ul style="list-style-type: none"><li>• Leveraging smart contracts and decentralized applications (dApps) to create personalized marketing campaigns that respond dynamically to user behavior and preferences.</li><li>• Utilizing AI-driven marketing automation tools to streamline processes such as lead generation, customer segmentation, and targeted content delivery.</li><li>• Understanding how automation enhances user engagement while ensuring data security within a decentralized ecosystem.</li></ul>
<b>Unit 9:</b> Web3 Email Marketing and User Acquisition (4 hours)	<ul style="list-style-type: none"><li>• Adapting email marketing strategies for Web3 audiences.</li><li>• User acquisition techniques for decentralized applications.</li><li>• Personalizing communication in a privacy-focused ecosystem.</li></ul>

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**Unit 10:**  
Capstone Project

**Assessment / Exam**

- Participants will work on a comprehensive project that applies learned concepts to a real-world scenario in Web3 marketing. This may include:
  - Developing a marketing strategy for a new dApp or token launch.
  - Creating a community engagement plan utilizing Discord or other platforms.
  - Designing an email marketing campaign tailored to a Web3 audience.
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- Evaluation through various methods such as:
  - Written exams covering key concepts from the course material.
  - Practical assessments based on capstone projects or case studies.

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5

Certified Bounty Hunter in Web3 Cybersecurity



Course Outline

Course Fee: HKD 18,000  
After Grants: HKD 9,000

Unit		Unit Content
Unit 1: Understanding OWASP Top 10 (7 Hours)	<ul style="list-style-type: none"><li>Understand the OWASP Top 10 framework and its importance in web application security.</li><li>Identify common vulnerabilities and their potential impacts.</li><li>Analyze real-world case studies to connect theoretical knowledge with practical applications.</li></ul>	<ul style="list-style-type: none"><li><b>Introduction to the OWASP Top 10 framework (interactive lecture and discussion).</b></li><li><b>Common vulnerabilities: SQL Injection, Cross-Site Scripting, and more (case study review).</b></li><li><b>Real-world case studies and war stories illustrating vulnerabilities (group discussion).</b></li></ul>
Unit 2: Practical Skill and tools for security testing (7 hours)	<ul style="list-style-type: none"><li>Gain practical skills in using Burp Suite and other tools for security testing.</li><li>Identify vulnerabilities in web applications and prioritize fixes.</li><li>Understand how to interpret tool outputs and apply findings to real-world scenarios.</li></ul>	<ul style="list-style-type: none"><li><b>Overview of Burp Suite and its functionalities (demonstration and guided walkthrough).</b></li><li><b>Identifying web application vulnerabilities: hands-on practice (lab exercise).</b></li><li><b>Interpreting and prioritizing findings from security tools (peer feedback activity).</b></li></ul>

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<b>Unit 3: Analyzing Web3 Cybersecurity incidents, documentation and reporting findings (7 hours)</b>	<ul style="list-style-type: none"><li>• Develop the ability to analyze Web3 Cybersecurity incidents and prioritize response actions.</li><li>• Practice documenting and reporting findings effectively.</li><li>• Enhance critical thinking under pressure through simulated scenarios</li></ul>	<ul style="list-style-type: none"><li>• <b>Principles of incident response and prioritization.</b></li><li>• <b>Simulated incident scenarios (e.g., DDoS attack, phishing breach).</b></li><li>• <b>Best practices for documenting and reporting incidents.</b></li></ul>
<b>Unit 4: Impactful presentation to non-technical stake holders (7 hours)</b>	<ul style="list-style-type: none"><li>• Develop skills to simplify and communicate complex Web3 Cybersecurity concepts.</li><li>• Practice delivering impactful presentations to diverse audiences.</li><li>• Build confidence in engaging with non-technical stakeholders.</li></ul>	<ul style="list-style-type: none"><li>• <b>Simplifying technical jargon for non- technical audiences.</b></li><li>• <b>Structuring and delivering a persuasive presentation.</b></li><li>• <b>Building trust and fostering collaboration.</b></li></ul>

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## Course Outline

Course Fee: HKD 18,000  
After Grants: HKD 9,000

Unit		Unit Content
<b>Unit 1: AI &amp; Prompt Engineering Foundations (7 Hours)</b>	<ul style="list-style-type: none"><li>• Introduction to AI and Prompt Engineering</li><li>• Understanding Large Language Models (LLMs)</li><li>• Basic Prompt Engineering Techniques</li></ul>	<ul style="list-style-type: none"><li>• <b>Define AI basics;</b></li><li>• <b>Understand prompt engineering's role.</b></li><li>• <b>AI evolution,</b></li><li>• <b>Context engineering,</b></li><li>• <b>ASEAN AI growth.</b></li></ul>
<b>Unit 2: Advanced Prompting &amp; Tools Mastery (7 hours)</b>	<ul style="list-style-type: none"><li>• Advanced Prompt Strategies</li><li>• Tools for Prompt Engineering</li></ul>	<ul style="list-style-type: none"><li>• <b>Explain LLM mechanics;</b></li><li>• <b>Manage context in prompts.</b></li><li>• <b>How LLMs process inputs,</b></li><li>• <b>Token limits,</b></li><li>• <b>Bias basics.</b></li><li>• <b>Refine complex prompts</b></li><li>• <b>Role-playing</b></li><li>• <b>Iterative refinement,</b></li><li>• <b>Multimodal prompts.</b></li></ul>

<b>Unit 3: Industry-Specific Applications in ASEAN (7 hours)</b>	<ul style="list-style-type: none"><li>• Prompt Engineering in Business and Finance</li><li>• AI in Healthcare and Education</li><li>• Manufacturing and Logistics Applications</li></ul>	<ul style="list-style-type: none"><li>• Tailor prompts for Business &amp; Finance jobs.</li><li>• Report, slides, marketing generation,</li><li>• Trade, financial &amp; risk analysis in ASEAN markets.</li><li>• Adapt prompts for social sectors.</li><li>• Patient data summarization, lesson planning in ASEAN contexts.</li><li>• Use prompts for operational efficiency.</li><li>• Supply chain optimization, quality control in ASEAN industries.</li><li>• Leverage free tools.</li><li>• Grok, Gemini, QWEN, GLM, Claude</li><li>• integration with workflows.</li></ul>
<b>Unit 4: Ethics, Responsibility &amp; Future-Proof Career (7 hours)</b>	<ul style="list-style-type: none"><li>• Ethics and Responsible AI in Prompting</li><li>• Future Trends and Career Impact</li></ul>	<ul style="list-style-type: none"><li>• Ensure ethical prompting.</li><li>• Bias detection,</li><li>• ASEAN regulations,</li><li>• Responsible AI practices.</li><li>• Explore AI's job market effects.</li><li>• Future trends, upskilling strategies in ASEAN.</li></ul>

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## Course Outline

Course Fee: HKD 58,000  
After Grants: HKD 29,000

Unit		Unit Content
Unit 1: Introduction to Blockchain	<ul style="list-style-type: none"><li>• Overview of blockchain technology</li><li>• History and evolution of blockchain</li><li>• Blockchain network architecture</li><li>• Blockchain consensus mechanisms (POW, POS, POC+)</li><li>• Types of blockchains (public, private, consortium)</li></ul>	<ul style="list-style-type: none"><li>• 1.1 Create your first paper wallet</li><li>• Create your first Cryptocurrency Paper Wallet &amp; Gift Card</li><li>• 1.2 Correct your blockchain, Web3 &amp; crypto perception</li><li>• What is Blockchain, Web3</li><li>• Private Vs Public Blockchain</li><li>• Blockchain, Web3 Ecosystem</li><li>• Why Blockchain Network, Web3 is Secure</li><li>• What are Smart Contracts &amp; DApp</li></ul>
Unit 2: Cryptography and Security in Blockchain	<ul style="list-style-type: none"><li>• Cryptography</li><li>• Hash functions and digital signatures</li><li>• Public and private key cryptography</li><li>• Smart contract security</li><li>• Common blockchain security threats and attacks</li><li>• Mitigating security risks in blockchain</li></ul>	<ul style="list-style-type: none"><li>• 2.1 Bitcoin is not currency but asset</li><li>• Bitcoin &amp; Blockchain, Web3 Relationship</li><li>• Coin vs Token vs NFT, RAW</li><li>• How Cryptocurrency works</li><li>• 2.2 Sustainable blockchain</li><li>• What is Mining &amp; Consensus Algo?</li><li>• POW vs POS vs POC+</li><li>• Blockchain Layer2 Solutions &amp; setup</li><li>• 2.3 HODL Safe and DEX</li><li>• Types of Cryptocurrency Wallets</li><li>• Centralized &amp; DeCentralized Exchanges</li><li>• Attacks: How Crypto Can Be Hacked</li><li>• Risk Management &amp; DeFi, Gamefi, Social-fi</li></ul>

<b>Unit 3: Applications of Signum Network</b>	<ul style="list-style-type: none"><li>• Signum Network</li><li>• Signum SDK - SignumJS &amp; SmartJ</li><li>• Writing and deploying smart contracts on Signum Network</li><li>• Decentralized Application (DApp) development on Signum Network</li><li>• Interacting with smart contracts using SmartJ</li></ul>	<ul style="list-style-type: none"><li>• <b>3.1 Blockchain, Web3 Technology Stacks</b></li><li>• <b>Web3 DApp &amp; Frontend framework</b></li><li>• <b>Angular, React &amp; NextJS</b></li><li>• <b>Frontend builder</b></li><li>• <b>Blockchain, Web3 Platforms</b></li><li>• <b>Ethereum &amp; Polygon &amp; Signum</b></li><li>• <b>Smart contract programming</b></li><li>• <b>Solidity &amp; Remix IDE &amp; Truffle dependency</b></li><li>• <b>SignumJS - SDK in Typescript</b></li><li>• <b>SmartJ - Smart contract platform in Java</b></li><li>• <b>Create first smart contracts &amp; token with SignumJS &amp; SmartJ</b></li></ul>
<b>Unit 4: Understand the InterPlanetary File System for Distributed Storage</b>	<ul style="list-style-type: none"><li>• InterPlanetary File System (IPFS)</li><li>• IPFS architecture and components</li><li>• IPFS file system and data storage</li><li>• Integrating IPFS with Signum Network (Pinata)</li><li>• Distributed storage and data privacy in blockchain</li></ul>	<ul style="list-style-type: none"><li>• <b>4.1 Blockchain, Web3 Technology Stacks (continued)</b></li><li>• <b>Distributed Storage Platforms (IPFS) - Pinata - working with IPFS gateway URLs</b></li><li>• <b>4.2 Build NFT, RWA Collectibles &amp; DApp Project by iHOST Web3 builder</b></li><li>• <b>Interact IPFS with Pinata</b></li></ul>
<b>Unit 5: Implementation for Smart Contract Development</b>	<ul style="list-style-type: none"><li>• Overview of smart contract development best practices</li><li>• Common vulnerabilities in smart contracts</li><li>• Security measures to secure smart contracts</li><li>• Optimizing smart contracts for gas usage</li><li>• Designing smart contracts for upgradability and modularity</li></ul>	<p><b>5.1 Build NFT, RWA Collectibles &amp; DApp Project by iHOST Web3 builder (continued)</b></p> <ul style="list-style-type: none"><li>• <b>Deploy Smart Contract on Signum Network</b></li><li>• <b>List NFTs, RWAs on Signumart Marketplace</b></li><li>• <b>Build DApp Project &amp; List on SIGDAO DApp Store!</b></li></ul>

\*Course content will be regularly updated to reflect current industry trends and real-world developments

<b>Unit 6: Blockchain Scalability and Performance</b>	<ul style="list-style-type: none"><li>• Blockchain scalability issues and solutions</li><li>• Signum Network's scalability solutions</li><li>• Sharding in Signum Network</li><li>• Signum Network's performance benchmarks</li><li>• Building high-performance DApps on Signum Network</li></ul>	<ul style="list-style-type: none"><li>• <b>6.1 Hands on setup validator, nodes &amp; NFT, RWA</b></li><li>• <b>6.2 Blockchain, Web3 Digital Transformation for SME</b></li><li>• <b>Benefits of using Blockchain Tech</b></li><li>• <b>Adopt Blockchain, Web3 to your business</b></li><li>• <b>Tokenize &amp; Create NFT, RWA for Biz</b></li></ul>
<b>Unit 7: Blockchain Governance and Regulation</b>	<ul style="list-style-type: none"><li>• Governance models in blockchain</li><li>• Regulatory landscape and compliance in blockchain</li><li>• Legal implications of blockchain technology</li><li>• Decentralized autonomous organizations (DAOs)</li><li>• Cryptocurrency taxation and reporting</li></ul>	<ul style="list-style-type: none"><li>• <b>7.1 Blockchain, Web3 resources &amp; identify scam project</b></li><li>• <b>Blockchain Tools and Platforms</b></li><li>• <b>7.2 Blockchain, Web3 Project Anti-mediaframing Analysis</b></li><li>• <b>Blockchain Project Valuation by FCAS</b></li><li>• <b>Predicting market price by market cap</b></li></ul>
<b>Unit 8: Impact of Blockchain</b>	<ul style="list-style-type: none"><li>• Current and emerging impacts of blockchain across industries</li><li>• Transformative blockchain applications beyond cryptocurrency</li><li>• Societal changes driven by blockchain technology</li><li>• Economic and social implications of blockchain adoption</li><li>• Ethical considerations and challenges in blockchain implementation</li></ul>	<p><b>8.1 What is NFT, RWA? Not just Art form!</b></p> <ul style="list-style-type: none"><li>• <b>Technical definitions of NFT and RWA</b></li><li>• <b>Token protocol (ERC20, ERC721 &amp; ERC1155)</b></li><li>• <b>Web3 &amp; DAO Business Model</b></li><li>• <b>NFT, RWA marketplace (Signumart, Opensea &amp; Magic Eden)</b></li><li>• <b>NFT, RWA assets in Metaverse</b></li></ul>

\*Course content will be regularly updated to reflect current industry trends and real-world developments



**120 hours,  
intensive  
training  
programme &  
practical project**

- **8.2 Business Process Automation System Tools (MAKE.COM)**
- **Development of Open API ecosystems**
- **Introduction and application of No-Code Tools**
- **Introduction and application of API connection software (MAKE.COM)**
- **Integration of daily operational processes through API automation**
- **50 case studies of daily operational process automation**
- **Hands-on practical sessions**
- **8.3 Developing Blockchain Web3 DApp with Open API Tools**
- **In-depth introduction and connection of Open API tools**
- **Development and automation of Headless Vercel CMS**
- **SEO essentials, keyword optimization, Growth Hacking**
- **Basic application of Google/Matomo Analytics**
- **Configuration and connection of Payment gateways**
- **Blockchain wallet application and Web3.js & SIGNUM.JS integration**
- **Hands-on practical sessions**
- **8.4 Establishing Automated AI Agent**
- **Advanced Open API system integration**
- **Application examples**
- **Establishing automated lead generation and sales-oriented processes**
- **Process design and configuration**
- **Integration of AI Agent with Web3 DApp systems**
- **Hands-on practical sessions**

\*Course content will be regularly updated to reflect current industry trends and real-world developments

8

TQUK Diploma in Web3 & AI Engineering (Level 5)



Course Outline

Course Fee: HKD 58,000  
After Grants: HKD 29,000

Unit		Unit Content
Unit 1: Introduction to Web3, AI, and Prompt Engineering	<ul style="list-style-type: none"><li>• Define basics;</li><li>• Understand roles in ASEAN.</li></ul>	<ul style="list-style-type: none"><li>• Web3 evolution,</li><li>• AI fundamentals,</li><li>• Prompt basics,</li><li>• Regional growth in ASEAN</li></ul>
Unit 2: Blockchain, LLMs, and Context Management	<ul style="list-style-type: none"><li>• Explain mechanics;</li><li>• Manage inputs.</li></ul>	<ul style="list-style-type: none"><li>• Digital ledgers,</li><li>• Consensus,</li><li>• LLM processing,</li><li>• Token limits,</li><li>• Bias.</li></ul>
Unit 3: Basic and Advanced Prompt Techniques	<ul style="list-style-type: none"><li>• Apply simple/advanced strategies.</li></ul>	<ul style="list-style-type: none"><li>• Zero/few-shot,</li><li>• Chain-of-thought,</li><li>• Role-playing,</li><li>• Iterative refinement.</li></ul>
Unit 4: Wallets, Security, and Tools for Prompting	<ul style="list-style-type: none"><li>• Set up tools;</li><li>• Ensure safe practices.</li></ul>	<ul style="list-style-type: none"><li>• Digital identity,</li><li>• Identify Scams,</li><li>• AI Playgrounds,</li><li>• integrations.</li></ul>

\*Course content will be regularly updated to reflect current industry trends and real-world developments

<b>Unit 5: Digital Assets and Prompting in Finance/ Business</b>	<ul style="list-style-type: none"><li>• Tailor for finance /Business;</li><li>• Explore AI digital assets.</li></ul>	<ul style="list-style-type: none"><li>• Tailor prompts for Business &amp; Finance jobs.</li><li>• Report, slides, marketing generation,</li><li>• Trade, financial &amp; risk analysis in ASEAN markets.</li><li>• Adapt prompts for social sectors.</li></ul>
<b>Unit 6: AI-Web3 in Healthcare, Education, and Social Sectors</b>	<ul style="list-style-type: none"><li>• Adapt for healthcare, Education &amp; social applications.</li></ul>	<ul style="list-style-type: none"><li>• Patient data summarization, lesson planning in ASEAN contexts.</li><li>• Use prompts for operational efficiency.</li><li>• Supply chain optimization, quality control in ASEAN industries.</li><li>• Leverage free tools.</li><li>• Grok, Gemini, QWEN, GLM, Claude</li><li>• integration with workflows.</li></ul>
<b>Unit 7: Applications in Manufacturing, Logistics, and Daily Life</b>	<ul style="list-style-type: none"><li>• Optimize operations;</li><li>• Identify impacts.</li></ul>	<ul style="list-style-type: none"><li>• Supply chain, quality control,</li><li>• Wallet connections,</li><li>• Future apps.</li></ul>
<b>Unit 8: Ethics, Trends, and Capstone Project</b>	<ul style="list-style-type: none"><li>• Ensure responsibility;</li><li>• Explore careers.</li></ul>	<ul style="list-style-type: none"><li>• Bias detection,</li><li>• Regulations,</li><li>• Future trends,</li><li>• Upskilling.</li></ul>

\*Course content will be regularly updated to reflect current industry trends and real-world developments





# Key Takeaway

- Insight & Truth of Blockchain, Web3 DApp
- Tech Stacks of blockchain, Web3 project
- Build own NFT, RWA collections & DApp project on green SIGNUM Network
- Develop, Integrate, Deploy smart contract & Web3 project on green SIGNUM Network
- Master 50 real-world examples of daily operational process automation, develop and integrate API Integration Tools – MAKE.COM, expand and transform existing traditional business models
- Apply Open API tools to automate and develop Blockchain Web3 DApp to upgrade operational processes
- Establish automated AI Agents integrated with various systems, operating 24/7 to increase business profitability, reduce labor costs, and optimize customer experience
- Automate daily business operations such as connecting website appointment forms to CRM systems, automatic document storage management, and automated marketing campaigns to potential customers
- “Learn by doing” approach by creating personalized NFT certificates



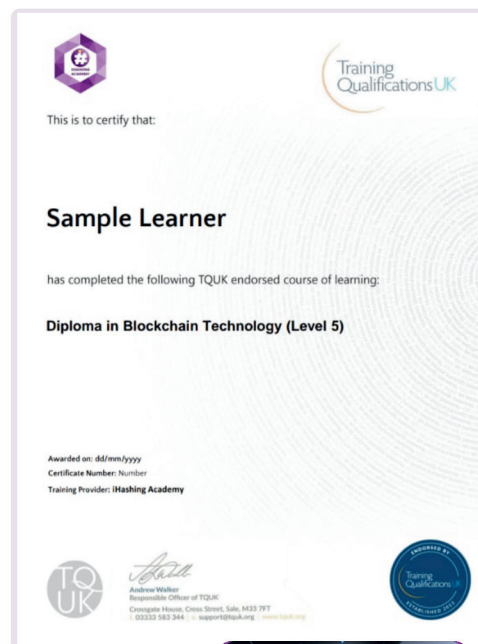
# Bonus Material

- Meet Global Talent Nominee in blockchain, fintech & access web3 sigdao community
- Granted SIGDAO VIP Pass for dApp project to get listed, voted & funded without pain.
- NFT Certificate, TQUK, SIGNUM & SIGDAO Foundation endorsed

## Awards

*Upon successful completion of the course and passing the examination, participants will be awarded 3 certificates:*

1. MicroMaster in Web3 Technology - by iHashing Academy
2. NFT Certificate - by Signum Network & Sigdao Foundation
3. TQUK Diploma (Level 5) - \*upon completion of 3 certified courses\*



**Hong Kong • Australia • UK • Canada**



The qualification level can be used as a reference by employers & institutions at their discretion, and it can be advanced to renowned universities in HK, UK, Australia & Canada.



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# Bridging Master & DBA Programs

## Msc in Machine Learning & AI

**Liverpool John Moores University (UK)**  
**20 months (Online & Live Prep Class)**  
Tuition Fee: HKD 78,000

## Msc in Data Science

**Liverpool John Moores University (UK)**  
**20 months (Online & Live Prep Class)**  
Tuition Fee: HKD 78,000

## DBA in Gen AI

**Golden Gate University (US)**  
**36 months (Online & Live Prep Class)**  
Tuition Fee: HKD 240,000 (Post Scholarship\*)



*\*Empower trainees with Live Prep Class in English/Cantonese/Mandarin.*

*\*Tuition fee can be paid in 2 installments.*

*\*Final tuition fee upon adjustment by Universities.*

*Contact us for more programs...*



IHASHING ACADEMY



# Admission Requirement

**NO web development or programming knowledge required to get started!**  
**We will definitely move you at fast pace!**



2 years of working experience in related field or



An English language level equivalent to DSE Level 3 or HKCEE English (Syl. B) grade E or



Demonstrated strong interest in web3 & blockchain technology



IHASHING ACADEMY  
<https://ihashing.hk>

Enrolment Form



IHASHING ACADEMY



# Trainers

**Mr. Andy, Chi Kwong Lam**  
**Director, Developer and Instructor, IHASHING ACADEMY**

Andy Lam is a seasoned FinTech and blockchain educator with over 20 years of industry experience and 8+ years specializing in Web3 technologies. Andy is a leading contributor to the Signum Network and an expert in DAPP, DeFi, Real-World Assets (RWA), and NFTs. As an Australia Global Talent Nominee in FinTech and Blockchain and IQA, Andy has delivered training across major platforms including Cyberport, HKU, OUHK LiPACE, and the Hong Kong Federation of Trade Unions. His practical, innovation-driven approach to blockchain & web3 education has earned widespread recognition, including accolades from BusinessFocus, HKCT, Business Innovator, and the TQUK Excellence Awards. With a strong commitment to accessible and future-ready tech training, Andy equips learners with hands-on skills and credentials that open doors to international opportunities.

## Acievements:

- **AUSTRALIA GLOBAL TALENT NOMINEE (FINTECH, BLOCKCHAIN)**
- **HKU, Centre for IT in Education Guest Speaker - The Green web3 revolution**
- **Hong Kong Representative on 2024 World Artificial Intelligence Conference (WAIC) by Cyberport & China**
- **WIKIEXPO HK - Supporting Partners 2024**
- **DES2024 Nominated Exhibitor**
- **HKCT BUSINESS AWARDS 2023 - Most Outstanding Blockchain & Web3 Solutions**
- **BUSINESS INNOVATOR 2023 Most Innovative Enterprise Award - The Best Blockchain Education, Application & Solution of the Year 2023**
- **BusinessFocus Excellence Awards 2023 - Blockchain Solutions & Web3 Education**
- **TQUK Excellence Awards 2022 - Innovation Award**
- **TQUK Internal Quality Assurance & Course Assessor, TQUK RQF endorsed courses provider.**
- **Lecturer & Speaker of Cyberport Academy, Blockchain Foundation Courses at Hong Kong Federation of Trade Unions, SFC-CPT blockchain courses for legal & financial industry managerial staff, computer & technology public courses at OUHK LiPACE**
- **Verified Teacher of Code.org & Quizizz AI Certified Educator**
- **DTSPR Registered Solutions Provider, Founders of series fintech & blockchain companies, and Cyberport Incubation Programme and Startup Alumni**
- **Developers of SIGNUM (formerly Burst) Blockchain Network - TOP 400 blockchain project worldwide. Publisher of BURSTPAY & Phoenix wallet, SIGDAO.IO & series Web3 Projects on Google Play & App Store with over 200000 users**
- **OpenSource Developers & Arctic Code Vault Contributors**

*more trainers...*



# Trainers

Mr. William, Wai Lam Sin  
Trainer, IHASHING ACADEMY

William Sin is a blockchain and fintech expert with extensive education and training in the field. He completed courses in Digital Transformation, covering AI, IoT, cloud, blockchain, and cybersecurity at the Massachusetts Institute of Technology, and earned a Professional Certificate in Blockchain from the University of California, Berkeley. Also, he holds Professional Diplomas in Computer Sciences & Professional Certificates in Fintech from the University of Hong Kong. William's contributions to the sector have been recognized with several awards, including the Most Outstanding Blockchain & Web3 Solutions at the HKCT BUSINESS AWARDS 2023 and the BusinessFocus Excellence Awards in Blockchain Solutions & Web3 Education. As a certified educator registered with EDB, William has delivered specialized blockchain courses for legal and financial professionals, and he is a regular speaker and lecturer at major industry events. His expertise and forward-thinking approach make him a leading figure in blockchain education, equipping professionals with the skills necessary to thrive in the digital economy.

## Achievements:

- [Hong Kong Representative on 2024 World Artificial Intelligence Conference \(WAIC\) by Cyberport & China](#)
- [WIKIEXPO HK - Supporting Partners 2024](#)
- [DES2024 Nominated Exhibitor](#)
- [HKCT BUSINESS AWARDS 2023 - Most Outstanding Blockchain & Web3 Solutions](#)
- [BUSINESS INNOVATOR 2023 Most Innovative Enterprise Award - The Best Blockchain Education, Application & Solution of the Year 2023](#)
- [BusinessFocus Excellence Awards 2023 - Blockchain Solutions & Web3 Education](#)
- [TQUK Excellence Awards 2022 - Innovation Award](#)
- [TQUK RQF Level 5 Diploma of Blockchain Technology IQA & Instructor.](#)
- Lecturer & Speaker of Cyberport Academy, Blockchain Foundation Courses at Hong Kong Federation of Trade Unions, SFC-CPT blockchain courses for legal & financial industry managerial staff
- Founders of series fintech & blockchain companies, and Cyberport Incubation Programme and Startup Alumni
- Developers of SIGNUM (formerly Burst) Blockchain Network - TOP 400 blockchain project over the world, and Publisher of BURSTPAY & Phoenix wallet, SIGDAO.IO & series Web3 Projects on Google Play & App Store with over 200000 users
- OpenSource Developers & Arctic Code Vault Contributors

*more trainers...*





# TQUK

## (Training Qualifications UK)

Internationally recognized TQUK certification: TQUK (Training Qualifications UK) is a leading qualification certification body in the UK with high international recognition. The TQUK Level 5 Diploma is equivalent to higher education qualifications in Hong Kong, UK, USA, Australia and Canada, providing strong support for your academic and professional career. Comprehensive curriculum: Covers both theory and practice of blockchain technology, from basics to advanced topics, ensuring students can fully master blockchain technology. High-quality teaching resources: Includes in-depth practical guidance from top blockchain experts, ensuring students acquire the latest and most practical knowledge.

Training Qualifications UK (TQUK) is a qualification awarding organization in the UK regulated by Ofqual (Office of Qualifications and Examinations Regulation). It offers over 300 UK qualification courses covering various professional fields. iHashing Academy is a partner center of TQUK, collaborating to offer TQUK endorsed course to enhance students' qualifications.

For details, please visit: [www.tquk-esea.org/about-us](http://www.tquk-esea.org/about-us)



## TQUK Certificate

The Level 5 recognized certificate is comparable to an Higher Diploma in Hong Kong's qualifications framework.

Although this course is not formally registered in Hong Kong, this certificate is audited and recognized by an officially approved third-party organization in the UK. The qualification level can be used as a reference by employers and institutions at their discretion. We are currently in discussions with various universities in the UK, Australia, and Canada, and there is potential that graduates may be able to use this certificate to apply for Master's Degree programs or Top-Up Degree programs in Computer Science, Artificial Intelligence (AI), or Data Science for further academic advancement.



// Top Asia Pacific Live-Class Blockchain  
& Web3 FutureSkills Academy //



**Website: [ihashing.hk](https://ihashing.hk)**

**Email: [iacademy@ihashing.hk](mailto:iacademy@ihashing.hk)**

**Community:**

IG: <https://instagram.com/ihashing.hk>

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LinkedIN: <https://linkedin.com/company/ihashing>

Github: <https://github.com/ihashing>

Youtube: <https://youtube.com/@ihashing>

Medium: <https://medium.com/ihashing>

Discord: <https://discord.gg/r4ry7vQf9D>