

ICASA 2026 | Track 2

University of East London (UEL) | School of Architecture, Computing and Engineering (ACE)

THE AI-WEB3 CRUCIBLE: BUILD, BREAK, HEAL

Powered by IndemBase: Securing the Sovereign Infrastructure of Tomorrow

Workshop Overview & Importance

Wall Street is moving the \$300 Trillion global securities market onto the blockchain. However, the immutable nature of smart contracts means software vulnerabilities translate instantly into irreversible financial losses.





“The AI-Web3 Crucible” bridges traditional network security with modern Web3 infrastructure. A central pillar addresses the dangerous reality of AI-assisted development (“vibe coding”). Participants will leverage AI to rapidly synthesize complex smart contract solutions, applying IndemBase’s strict, zero-trust validation loop: AI generation, secondary AI auditing, human expert review, and mathematical verification.

Core lesson: Do not blindly trust AI; verify every parameter.

Target Audience

Ideal for Software Engineers, FinTech Leaders, Product Managers, Academic Researchers, and Tech-Enthusiasts exploring the intersection of AI, cybersecurity, and financial market infrastructure.

Expected Outcomes

-  **Rapid Synthetic Genesis:** Utilizing AI for high-speed application generation.
-  **Iterative Auditing Loops:** Using secondary AI models and expert oversight to secure code.
-  **Intelligent Security:** Deploying machine learning for real-time transaction anomaly detection.
-  **Formal Verification:** Using mathematical concepts to prove code safety and eliminate single points of failure.

Workshop Schedule (3 June 2026)

- 09:00 – 10:00: Synthetic Genesis & The “Vibe Coding” Trap.
- 10:10 – 11:15: The Automated Adversary & Live Execution.
- 11:30 – 12:25: Intelligent Security & Complexity Enhancement.
- 12:50 – 13:45: Research Frontier, Formal Verification & Final Synthesis.

Presenter Biographies

Dr. Mohammad Hashem Haghghat (Lead Architect): Security Architect with a 20-year background bridging traditional malware detection and AI-driven smart contract exploitation. Leads technical execution at IndemBase.

Dr. Katayoun Nozari (Co-Presenter): Head of RRD and Blockchain Developer with a Ph.D. in Mathematics. Specializes in rigorous analytical engineering for secure decentralized applications and token architectures.

Mohammadali Mirzaei (Co-Presenter): Software Engineer with 8+ years of Java development experience, specializing in scalable enterprise backend architecture and data modeling.

Key Requirements / Prerequisites

No advanced blockchain development experience required. Participants need a standard laptop with a modern web browser. Cloud-based sandboxes will be provided.

About IndemBase

IndemBase is an enterprise-grade Blockchain-as-a-Service (BaaS) provider, specializing in Sovereign Custody. By eliminating single points of failure through Multi-Party Computation (MPC), we provide the secure infrastructure required to navigate the tokenized economy.

Registration Fee: £150

SCAN TO REGISTER

