

Yanqi Yang

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Education

Nanyang Technological University <i>Master of Science in Blockchain Technology</i>	<i>Aug 2025 – Dec 2026</i>
Temple University <i>Bachelor of Arts in Economics</i>	<i>May 2022 – May 2025</i>

Work Experience

Kaia Foundation <i>FX-Stablecoin Trading Engine — Systems & Trading Infrastructure Engineer</i>	<i>Oct 2025 – Feb 2026</i>
<ul style="list-style-type: none"> ○ Test Automation Support: Developed internal tooling and scripts to automate service validation, API checks, and regression-style testing for a distributed backend, improving test coverage and reducing manual debug time during system qualification. ○ System Qualification & Data Analysis: Assisted in qualification and characterization workflows by collecting performance metrics (latency, error rates, throughput) from production-like environments and generating structured reports and dashboards for root-cause analysis. ○ Debug & Optimization: Instrumented Spring Boot microservices with structured logging, metrics, and Redis-based tracing to identify concurrency issues and stabilize core service latency below 50ms under high-load scenarios. ○ Infrastructure & Correlation: Built a multi-threaded pricing and validation layer ingesting Chainlink, Pyth, and CEX WebSocket streams, applying backoff and compensation logic to correlate off-chain computation with on-chain settlement results. 	

Projects

Multi-Agent Rust/Solana Smart Contract Security Auditing System	<i>Remote</i>
<ul style="list-style-type: none"> ○ Automated Test Pipeline: Built a FastAPI-based analysis and validation pipeline covering source, AST, HIR, and MIR layers, enabling automated qualification of Rust/Solana programs with findings traceable to file, function, and line level. ○ Debug & Characterization: Implemented logging, structured JSON reporting (Pydantic), and Redis-backed task state tracking to support reproducible debugging, failure characterization, and regression-style re-runs across large codebases. ○ Multi-Agent Framework: Designed FINDER / SKEPTIC / FIXER roles to validate candidate issues through discovery, counter-evidence, and remediation stages, reducing false positives and improving result consistency. ○ Semantic Correlation: Integrated embedding-based retrieval with Qdrant to correlate functions, call graphs, and control-flow paths, supporting cross-module reasoning and verification of execution and state-mutation order. 	

Skills & Competencies

Test & Automation: Test Development, System Qualification, Data Analysis, Debugging, Regression Testing, Logging & Metrics, Performance Optimization

Programming & Scripting: Python (Advanced), Java, C++, Shell Scripting (Linux/Windows), JavaScript

Backend & Frameworks: FastAPI, Spring Boot, Django, Redis Cluster

Infrastructure & Tools: Docker, Git, Linux, Web3j, Caver-java

Data Systems: PostgreSQL, MySQL, Qdrant, Chroma