

Kong Hoi Tec

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Education

National University of Singapore (NUS)

Aug 2023 – May 2027

Bachelor of Computing in Information Systems (Honours)

- GPA: 4.76/5.0 (First Class Honours)
- Specialisations: Financial Technology and Artificial Intelligence (AI) System Solutioning

Work Experience

GIC, Public Equities Technology — Full-Stack Software Engineer Intern

Jan 2026 – Jun 2026

- Built production features for a public equities analytics platform using React, TypeScript, Express, Python/FastAPI, .NET/C#, SQL, and Kubernetes.
- Architected a fault-tolerant caching workflow across 4 microservices with checkpointing, chunking, retries, and throttling, reducing manual effort by ~93% and improving recovery from partial failures.
- Built an investment portfolio metadata system, reducing recurring updates from ~2 hours to ~5 minutes and saving 900+ staff-hours/year through reusable AgGrid components, bulk editing, and audit tracking.
- Developed an automated compliance alert system converting regulatory emails into audit-tracked in-app notifications, reducing follow-ups and increasing visibility for 2,000+ annual notices across 11 teams.

NUS — Software Engineer

Aug 2024 – Dec 2025

- Built a Unity/C# interactive simulation for NUS Open House 2026, optimizing WebGL delivery for mobile/tablet browsers with touch support and reducing build size by 80% from 150MB to 30MB.

NUS, CS2040 Data Structures and Algorithms — Teaching Assistant

Aug 2025 – Nov 2025

- Led weekly Java labs for 26 students, grading assignments and coaching algorithmic problem-solving.

PSA Singapore — Software Engineer Intern

May 2025 – Aug 2025

- Built and deployed enterprise AI chatbot and RAG platforms piloted across PSA Singapore's technology organization, using React, Express, Docker, Azure App Service, and Azure AD authentication.
- Developed Python-based Project Moonshot pipelines to benchmark 5+ LLMs across providers, automating capability, quality, and safety benchmarking for chatbot reliability.

Projects

Capstone Project, Urban Redevelopment Authority (URA) — Tech Lead

- Led a 5-member team to deploy an inspection automation platform for 7,000+ annual building reports, integrating computer vision, human-in-the-loop validation, and automated report generation.
- Architected a web-queue-worker pipeline with React, Express, PostgreSQL, Azure Service Bus, Blob Storage, and containerized Python workers for asynchronous image comparison and PDF generation.

Atto — Full-Stack Developer

- Built a local-first open-source AI job-search assistant with 700+ downloads, enabling application tracking, job parsing, and resume tailoring with React, TypeScript, FastAPI, Python, and SQLite.

Visa x SFYC Finconnect Hackathon, 1st Place — Backend Developer

- Built the Express backend for a fintech app enabling affluent travelers to deposit stablecoins, earn staking yield, and simulate global card spending through a Visa API integration.

FetchIT, Google Developer Groups NUS — Software Engineer

- Built and deployed a platform with React and Supabase to centralize Action for Singapore Dogs' medical records, adoption workflows, and dog profiles, streamlining shelter operations.

Skills

- Languages: TypeScript, JavaScript, Python, Java, C#, SQL
- Frameworks/Tools: React, Express, FastAPI, .NET, Docker, PostgreSQL, Azure, Kubernetes, Git