

# Gabriel Ong Zhe Mian

[gabrielongzm.com](http://gabrielongzm.com)

Full-Stack Developer specialising in Legal Technology

+65-8123-9863

[gabrielzmong@gmail.com](mailto:gabrielzmong@gmail.com)

[linkedin.com/in/gabriel-zmung](https://linkedin.com/in/gabriel-zmung)

[github.com/gongahkia](https://github.com/gongahkia)

## EDUCATION

### Singapore Management University

BSc Computing and Law, Cybersecurity (2nd Major)

Aug. 2023 - May 2027

GPA: 3.60/4.00

### Anglo-Chinese School (Independent)

International Baccalaureate Diploma Programme

Jan. 2019 - Nov. 2020

Points: 44/45

## SKILLS

**Frontend:** React, Next.js, React Native, Flutter, Electron.js

**Backend:** Python, TypeScript, Go, Rust, SQL, Java, Node.js

**Cloud:** GCP, AWS, Docker, Kubernetes, GitHub Actions, Supabase, MongoDB, Pinecone, Cloudflare

**Legal:** Intellectual Property Law, Privacy & Data Protection Law, Company Law, Contract Law

## EXPERIENCE

### WhyHow.AI, San Francisco: Software Development Intern

Aug. 2025 - Dec. 2025

- Architected a multi-agent ETL pipeline using **Python** and **Pydantic AI** to detect emergent harms across **10,000+** PubMed abstracts, reducing manual review time by an estimated **60%**.

### Custom Automated Systems, Singapore: Full-Stack Development Intern

May 2025 - Aug. 2025

- Implemented RAG and Agentic Refinement on ProQuaere's Outputs with **TypeScript** and **Hugging Face** models.
- Optimised client-side LLM inference for ProQuaere using **WebGPU** and **Electron.js**, achieving a **40%** reduction in average response latency.

### SMU Yong Pung How School of Law, Singapore: Research Assistant

Jan. 2025 - Aug. 2025

- Built a **15-agent** large Adversarial AI agent network in **Pydantic AI** and **ChromaDB** for use in ongoing academic publication research.

### Elefant, Singapore: Backend Development Intern

Sep. 2024 - Dec. 2024

- Engineered **CI/CD** pipelines in **Python** and **GCP** that automated end-to-end data extraction, enrichment, and validation workflows, reducing manual data processing effort by **65%** and improving data reliability.

## PROJECTS

**Yuho:** Domain-specific language (DSL) in **Rust** that provides a formal, programmatic representation of Singapore's Penal Code, enabling automated legal reasoning and statute querying across **50+ criminal offences**.

**Sea Kayak:** Full-stack **React** and **Node.js** web application that aggregates and curates real-time legal news from **10+ Singapore sources**.

**Jikai:** Tort law hypothetical generation pipeline in **Python** and **LangChain**, enabling law students and researchers to create legal scenarios for academic study with an average generation latency of **3 seconds** per scenario.

## AWARDS & COMPETITIONS

### SMU Global Impact Scholarship Award

Aug. 2023 - May 2027

Premier flagship scholars' award

### SMU LIT Hackathon 2025

Sep. 2025

1st Place (MinLaw Track 2)

### NUS Product Club Vibe-Building Hackathon 2025

Aug. 2025

2nd Place

### HackOMania 2025

Feb. 2025

GeeksHacking Choice Award

### YouthTechSG YouthxHack 2024

Aug. 2024

1st Place (Digital Defence Track)