

# Gabriel Ong Zhe Mian

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Full Stack Developer specialising in Legal Technology

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## EDUCATION

### Singapore Management University

BSc Computing and Law, Cybersecurity (2nd Major)

Aug. 2023 - May 2027

GPA: 3.61/4.00

### Anglo-Chinese School (Independent)

International Baccalaureate Diploma Programme

Jan. 2019 - Nov. 2020

Points: 44/45

## SKILLS

**Frontend:** React, React Native, Next.js, Vue.js, Electron.js, Svelte, Flutter, Quasar, Cordova

**Backend:** Python, JavaScript, TypeScript, Java, Go, Rust, SQL, Node.js, PHP, Dart, Directus, Hookdeck

**Cloud:** GCP, Supabase, MongoDB, ChromaDB, Pinecone, AWS, Docker, Kubernetes, Heroku, CI/CD

**Legal:** Legal writing, Contract law, Criminal law, Tort law, Intellectual Property law, Privacy Law, Company Law

## EXPERIENCE

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

Aug. 2025 - Dec. 2025

- Implemented Multi-agent ETL Pipeline for emergent harm detection from PubMed. (Python, Pydantic AI)

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

May 2025 - Aug. 2025

- Implemented RAG and Agentic Refinement on ProQuaere's Outputs. (Hugging Face, TypeScript)
- Optimised ProQuaere's Client LLM performance on Browser, Desktop, Mobile. (WebGPU, Vue.js, Electron.js)
- Upgraded Caselist's Backend for Legal Case Retrieval from CommonLII, Lawphil, SAL LawNet Databases. (PHP)

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

Jan. 2025 - Aug. 2025

- Programmed Adversarial AI agents for use in legal scholarship and argumentation. (Python, ChromaDB)
- Deployed Web App for Benchmarking of AI Agents on Legal Analysis tasks. (JavaScript)

### Elefant, Singapore: Backend Development Intern

Sep. 2024 - Dec. 2024

- Created CI/CD pipelines automating data extraction, enrichment and validation. (Python)
- Deployed web monitoring solutions to log continuous data availability. (GCP, Colab Enterprise)

### Various Startups, Singapore: Founder, Co-founder, Tech Development Head

Apr. 2024 - Mar. 2025

- The Yap Labs: Collaboratively developed the Yap.com mobile app. (Flutter, Dart, Firebase)
- The Modo Collective: Wrote and deployed the Modo cross-platform app. (Vue.js, Python, SQL, AWS, Netlify)

### SMU Legal Innovation and Technology (LIT), Singapore: Tech Development Director

Aug. 2023 - Aug. 2024

- Spearheaded multiple open-source legal tech projects. (Python, JavaScript, Rust)

## PROJECTS

**Yoho:** DSL providing a programmatic representation of Singapore Criminal Law.

**Sea Kayak:** Web App that curates up-to-date legal news in Singapore.

**Jikai:** Tort law hypothetical generation model powered by RAG and agentic pipelines.

## AWARDS, COMPETITIONS

### SMU Global Impact Scholarship Award

Aug. 2023 - May 2027

Premier flagship scholars' award

## COMPETITIONS

### Champion of SMU LIT Hackathon 2025: MinLaw Track 2

Sep. 2025

### Second place for Vibe-Building Hackathon 2025

Aug. 2025

### GeeksHacking Choice Award for HackOMania 2025

Feb. 2025

### Champion of YouthxHack 2024: Digital Defence

Aug. 2024