

# 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-zmong](https://linkedin.com/in/gabriel-zmong)

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

## EDUCATION

<b>Singapore Management University</b> BSc Computing and Law, Cybersecurity (2nd Major)	Aug. 2023 - May 2027 GPA: 3.60/4.00
<b>Anglo-Chinese School (Independent)</b> International Baccalaureate Diploma Programme	Jan. 2019 - Nov. 2020 Points: 44/45

## SKILLS

<b>Frontend:</b> React, React Native, Next.js, Vue.js, Electron.js, Svelte, Flutter, Quasar, Cordova
<b>Backend:</b> Python, JavaScript, TypeScript, Java, Go, Rust, SQL, Node.js, PHP, Dart, Directus, Hookdeck
<b>Cloud:</b> GCP, Supabase, MongoDB, ChromaDB, Pinecone, AWS, Docker, Kubernetes, Heroku, Cloudflare, CI/CD
<b>Legal:</b> Legal writing, Contract law, Criminal law, Tort law, Intellectual Property law, Privacy Law, Company Law

## EXPERIENCE

<b>WhyHow.AI, San Francisco:</b> <i>Software Development Intern</i>	Aug. 2025 - Dec. 2025
• Implemented Multi-agent ETL Pipeline for emergent harm detection from PubMed. (Python, Pydantic AI)	
<b>Custom Automated Systems, Singapore:</b> <i>Full Stack Development Intern</i>	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)	
<b>SMU Yong Pung How School of Law, Singapore:</b> <i>Research Assistant</i>	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)	
<b>Elefant, Singapore:</b> <i>Backend Development Intern</i>	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)	
<b>SMU Legal Innovation and Technology (LIT), Singapore:</b> <i>Tech Development Director</i>	Aug. 2023 - Aug. 2024
• Spearheaded multiple open-source legal tech projects. (Python, JavaScript, Rust)	

## PROJECTS

<b>Yuho:</b> DSL providing a programmatic representation of Singapore Criminal Law.
<b>Sea Kayak:</b> Web App that curates up-to-date legal news in Singapore.
<b>Jikai:</b> Tort law hypothetical generation model powered by RAG and agentic pipelines.

## AWARDS, COMPETITIONS

<b>SMU Global Impact Scholarship Award</b> Premier flagship scholars' award	Aug. 2023 - May 2027
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## COMPETITIONS

<b>Champion of SMU LIT Hackathon 2025: MinLaw Track 2</b>	Sep. 2025
<b>Second place for Vibe-Building Hackathon 2025</b>	Aug. 2025
<b>GeeksHacking Choice Award for HackOMania 2025</b>	Feb. 2025
<b>Champion of YouthxHack 2024: Digital Defence</b>	Aug. 2024