Gabriel Ong Zhe Mian

gabrielongzm.com

Full Stack Developer specialising in Legal Technology

+65-8123-9863
gabrielzmong@gmail.com
linkedin.com/in/gabriel-zmong
github.com/gongahkia

EDUCATION

Singapore Management University — Aug. 2023 - May 2027
BSc Computing and Law, Cybersecurity (2nd Major) — GPA: 3.66/4.0

Anglo-Chinese School (Independent) — Jan. 2019 - Nov. 2020
International Baccalaureate Diploma Programme — Points: 44/45

SKILLS

Frontend: React, React Native, Next.js, Vue.js, Electron.js, Svelte, Flutter, Quasar, Cordova
Backend: Python, SQL, Go, JavaScript, TypeScript, Node.js, PHP, Rust, Dart, Directus, Hookdeck
Cloud: GCP, Supabase, MongoDB, ChromaDB, Pinecone, AWS, Heroku, Docker, Kubernetes, CI/CD
Others: Linux, TensorFlow, PyTorch, Hugging Face, WebLLM, Vulkan, WebGL, WebGPU, Haskell, Lua
Legal: Legal writing and research, Contract law, Criminal law, Tort law, Intellectual Property law

EXPERIENCE

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

Yuho: DSL providing a programmatic representation of Singapore Criminal Law.
Sea Kayak: Web App that curates up-to-date legal news in Singapore.
Skill Hunter: Browser extension that embeds statutory definitions within SSO legislation.
DC4U: Markup language for charge sheet drafting with multiple transpiled target formats.
Jikai: Tort law hypothetical generation model powered by RAG and agentic refinement.
Judgeman: Browser extension that optimizes eLitigation case facts for absorption by sanitising legalese.
Netero: Decentralized voting platform built with the Ethereum blockchain.
Uzu: Browser Extenstion providing structured case summaries via Gemini 2.5 Flash.

AWARDS

SMU Global Impact Scholarship Award — Aug. 2023 - May 2027
Premier flagship scholars' award

COMPETITIONS

GeeksHacking Choice Award for HackOMania 2025 — Feb. 2025

Champion of YouthxHack 2024: Digital Defence — Aug. 2024