Gabriel Ong Zhe Mian

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Full Stack Developer specialising in Legal Technology

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EDUCATION

Singapore Management University   Aug. 2023 - May 2027
BSc Computing and Law, Cybersecurity (2nd Major)   GPA: 3.60/4.00

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, JavaScript, TypeScript, Java, Go, Rust, SQL, Node.js, PHP, Dart, Directus, Hookdeck
Cloud: GCP, Supabase, MongoDB, ChromaDB, Pinecone, AWS, Docker, Kubernetes, Heroku, Cloudflare, 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)

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.
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

SMU LIT Hackathon 2025: MinLaw Track 2   Sep. 2025
1st Place

Vibe-Building Hackathon 2025   Aug. 2025
2nd Place

HackOMania 2025   Feb. 2025
GeeksHacking Choice Award

YouthxHack 2024: Digital Defence   Aug. 2024
1st Place