

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, Cloudflare, CI/CD
Legal: Legal writing, Contract law, Criminal law, Tort law, Intellectual Property law, Privacy Law, Company Law

EXPERIENCE

WhyHow.AI, San Francisco: <i>Software Development Intern</i>	Aug. 2025 - Dec. 2025
<ul style="list-style-type: none">Implemented Multi-agent ETL Pipeline for emergent harm detection from PubMed. (Python, Pydantic AI)	
Custom Automated Systems, Singapore: <i>Full Stack Development Intern</i>	May 2025 - Aug. 2025
<ul style="list-style-type: none">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: <i>Research Assistant</i>	Jan. 2025 - Aug. 2025
<ul style="list-style-type: none">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: <i>Backend Development Intern</i>	Sep. 2024 - Dec. 2024
<ul style="list-style-type: none">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: <i>Founder, Co-founder, Tech Development Head</i>	Apr. 2024 - Mar. 2025
<ul style="list-style-type: none">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: <i>Tech Development Director</i>	Aug. 2023 - Aug. 2024
<ul style="list-style-type: none">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 Premier flagship scholars' award	Aug. 2023 - May 2027
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