

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: 3.60/4.00
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
• 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
• 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
• 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
• 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: <i>Tech Development Director</i>	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 Premier flagship scholars' award	Aug. 2023 - May 2027
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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