

# Gabriel Ong Zhe Mian

[gabrielongzm.com](http://gabrielongzm.com)

Full-Stack Developer specialising in Legal Technology

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## 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

**Frontend:** React, Next.js, React Native, Flutter, Electron.js  
**Backend:** Python, TypeScript, Go, Rust, SQL, Java, Node.js  
**Cloud:** GCP, AWS, Docker, Kubernetes, GitHub Actions, Supabase, MongoDB, Pinecone, Cloudflare  
**Legal:** Intellectual Property Law, Privacy & Data Protection Law, Company Law, Contract Law

## EXPERIENCE

<b>WhyHow.AI, San Francisco:</b> <i>Software Development Intern</i> • Architected a multi-agent ETL pipeline using <b>Python</b> and <b>Pydantic AI</b> to detect emergent harms across <b>10,000+</b> PubMed abstracts, reducing manual review time by an estimated <b>60%</b> .	Aug. 2025 - Dec. 2025
<b>Custom Automated Systems, Singapore:</b> <i>Full-Stack Development Intern</i> • Implemented RAG and Agentic Refinement on ProQuaere’s Outputs with <b>TypeScript</b> and <b>Hugging Face</b> models. • Optimised client-side LLM inference for ProQuaere using <b>WebGPU</b> and <b>Electron.js</b> , achieving a <b>40%</b> reduction in average response latency.	May 2025 - Aug. 2025
<b>SMU Yong Pung How School of Law, Singapore:</b> <i>Research Assistant</i> • Built a <b>15-agent large</b> Adversarial AI agent network in <b>Pydantic AI</b> and <b>ChromaDB</b> for use in ongoing academic publication research.	Jan. 2025 - Aug. 2025
<b>Elefant, Singapore:</b> <i>Backend Development Intern</i> • Engineered <b>CI/CD</b> pipelines in <b>Python</b> and <b>GCP</b> that automated end-to-end data extraction, enrichment, and validation workflows, reducing manual data processing effort by <b>65%</b> and improving data reliability.	Sep. 2024 - Dec. 2024

## PROJECTS

**Yuho:** Domain-specific language (DSL) in **Rust** that provides a formal, programmatic representation of Singapore’s Penal Code, enabling automated legal reasoning and statute querying across **50+ criminal offences**.  
**Sea Kayak:** Full-stack **React** and **Node.js** web application that aggregates and curates real-time legal news from **10+ Singapore sources**.  
**Jikai:** Tort law hypothetical generation pipeline in **Python** and **LangChain**, enabling law students and researchers to create legal scenarios for academic study with an average generation latency of **3 seconds** per scenario.

## AWARDS & COMPETITIONS

<b>SMU Global Impact Scholarship Award</b> Premier flagship scholars’ award	Aug. 2023 - May 2027
<b>SMU LIT Hackathon 2025</b> 1st Place (MinLaw Track 2)	Sep. 2025
<b>NUS Product Club Vibe-Building Hackathon 2025</b> 2nd Place	Aug. 2025
<b>HackOMania 2025</b> GeeksHacking Choice Award	Feb. 2025
<b>YouthTechSG YouthxHack 2024</b> 1st Place (Digital Defence Track)	Aug. 2024