

Roger Zhang

✉ rogerzhangxh@gmail.com ☎ +65 86522908 ⚡ Roger Zhang

EDUCATION

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| National University of Singapore Bachelor of Computing, Computer Science | Aug 2025 – Jul 2029 |
| ◦ GPA: 5.00/5.00 ◦ NUS Merit Scholarship recipient | |

Raffles Institution
GCE A Levels, 7 Distinctions

- Raffles Academy: Mathematics, Physics, Chemistry

EXPERIENCE

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| Hypotenuse AI [GitHub] | Singapore |
| Growth and Operations | Jan 2025 – Jun 2025 |
| ◦ Spearheaded inbound and outbound sales, CRM, lead qualification and high-profile outreach. | |
| ◦ Managed recruitment for multiple roles, screening thousands of candidates and scheduling weekly interviews. | |
| ◦ Boosted productivity of data workflows through automation with Python scripts and Pandas. | |

Singapore Physics League [GitHub]

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| Deputy Chief Organiser, Problem Setter | Singapore |
| | Sep 2022 – Jun 2025 |
| ◦ Led an 18-member team to host the 4th Singapore Physics League with 3000 participants from 109 schools. | |
| ◦ Set and reviewed problems for 3 editions of SPhL which were warmly received by participants. | |

PROJECTS

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| TikTok TechJam [GitHub] | Aug 2025 |
| ◦ Backend engineer for GeoFlag , a private LLM-powered compliance dashboard for region-specific feature validation. | |
| ◦ Designed a vectorization and retrieval pipeline, converting laws and regulations into embeddings and storing them in Supabase for semantic search. | |
| ◦ Implemented API routing in Next.js and LLM inference via Ollama to generate compliance checks grounded in retrieved regulations. | |

National AI Student Challenge, 1st Place [GitHub]

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| | May 2025 |
| ◦ Led system architecture and full-stack development for CivicAId , a conversational assistant for reporting and routing municipal issues to the appropriate agencies. | |
| ◦ Developed RESTful APIs using Node.js (Express) with PostgreSQL (NeonDB) queries to support end-to-end application flow. | |
| ◦ Built the frontend in React (Vite) and Tailwind (DaisyUI) to deliver a responsive, user-friendly interface. | |

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML, SQL, Python

Frameworks & Libraries: React (Vite, Next.js), Node.js (Express), Tailwind CSS

Databases & Platforms: PostgreSQL (NeonDB, Supabase)

Others: Git, NumPy, Pandas, LaTeX