

Roger Zhang

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

EDUCATION

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

Hypotenuse AI 	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 	Singapore
Deputy Chief Organiser, Problem Setter	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

TikTok TechJam 	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 	May 2025
◦ Led system architecture and full-stack development for CivicAIId , 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