

Roger Zhang

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EDUCATION

National University of Singapore

Aug 2025 – May 2028

Bachelor of Computing, Computer Science

[Expected]

- GPA: 4.80/5.00 (Dean's List), NUS Merit Scholarship recipient
- Specialisation in Algorithms & Theory and Artificial Intelligence
- Teaching Assistant for CS2040 Data Structures and Algorithms

Raffles Institution

Jan 2017 – Dec 2022

GCE A Levels, 7 Distinctions with H3 Physics Distinction

- Raffles Academy: Mathematics, Physics, Chemistry
- Olympiads: SPhO Silver, SYPT Gold, SPhL Gold, SMO Silver

EXPERIENCE

MiChat [🔗](#)

Singapore

Software Engineer Intern

May 2026 – Aug 2026

- Built and deployed a translation management system to automate Android app microcopy expansion and maintenance, spanning 10+ languages and 15,000 strings.
- Designed an LLM translation pipeline comprising context-aware, prompt-chained translate/grade/retry cycles.
- Increased translation speed tenfold and improved translation accuracy to ~98%.
- Developed across the stack, including UI/UX, business logic implementation, API and database integration.

Hypotenuse AI [🔗](#)

Singapore

Growth and Operations

Jan 2025 – Jun 2025

- Collaborated closely with engineering to test new product features, identify usability issues, and provide actionable feedback that improved product quality and customer experience.
- 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 over 3000 participants from 109 schools.
- Set and reviewed Physics problems for 3 editions of SPhL which were warmly received by participants.

ACTIVITIES & PROJECTS

Participant, Jane Street Portal [🔗](#)

Jun 2026

- Selected to attend a 4-day program under the Trading and Research track to learn more about Jane Street's technical roles and operations.

Director, OrcaCode [🔗](#)

May 2026 – Present

- Planned weekly programming talks and LeetCode whiteboarding sessions.
- Helped students build strong technical interview skills and fostered a growing community of programming enthusiasts.

Software Engineer, Source Academy [🔗](#)

Jan 2026 – Apr 2026

- Enhanced arrow routing in the Control, Stash, Environment (CSE) Machine visualisation for CS1101S students.
- Won 1st prize for the CP3108 track at the 28th SoC Term Project Showcase (STEPS).

TikTok TechJam [\[GitHub 🔗\]](#)

Aug 2025

- Developed an AI compliance dashboard that helps global apps navigate complex region-specific regulations.
- Implemented a RAG pipeline, converting laws into vector embeddings for semantic search and LLM inference via Ollama.

National AI Student Challenge, 1st Prize [\[GitHub 🔗\]](#)

Feb 2025 – May 2025

- Developed an AI assistant which routes citizen-reported municipal issues to the appropriate agency for swift resolution.
- Engineered RESTful APIs with Express and built a responsive React frontend with DaisyUI, enabling end-to-end application workflows from user interaction to data persistence.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, HTML, SQL

Frameworks & Libraries: React, SvelteKit, Tailwind CSS, Express, FastAPI, NumPy, Pandas

Databases: SQLite, PostgreSQL

Others: Git, Docker, Unix, Vim, LaTeX