

Liang Zhe Hang

☎ +65 9138 9253 ✉ liangzhehang@gmail.com 🔗 linkedin.com/in/liangzhehang 🌐 zhehang.pages.dev

Summary

Incoming Computer Science undergraduate at the National University of Singapore. Passionate about building with large language models and applying algorithmic thinking to real-world problems. Available for internships from November 2026 to August 2027.

Education

National University of Singapore <i>Bachelor of Computing in Computer Science</i>	2027 – 2031 (incoming) Singapore
National Junior College GCE A-Levels, Rank Points 88.75/90	2023 – 2024 Singapore

- A in Mathematics, Physics, Chemistry, Economics and Project Work; B in General Paper.

Projects

EhParkLeh: Singapore parking finder (web app) | *React, TypeScript, FastAPI, Leaflet* ehparkleh.vercel.app

- Full-stack web app that finds the nearest carpark around any Singapore address with live lot availability, rates, EV-charging status and car wash bays.
- Uses data from data.gov.sg and LTA DataMall government feeds, and the Google Places API for carparks not in the government data.

.sort(): exam-question classification pipeline | *Python, JavaScript, LLM Agents*

- LLM-agent pipeline that reads a stack of exam papers, classifies every question by topic, and assembles a revision package.
- Frees tutors and educators from mundane, repetitive work so they can focus on more important tasks.

Kekulé: organic-chemistry structure renderer | *Python, RDKit, SVG*

- LLM skill that turns a compound into a clean, Singapore exam-style organic structure as sharp vector SVG, in structural, displayed or skeletal form.
- Produces the condensed, exam-style notation taught in Singapore schools, which general-purpose renderers like RDKit do not draw by default.

LeetCode TrackR: spaced-repetition logger | *Python, GitHub Actions, Notion API*

- Autonomous daily cron job on GitHub Actions that pulls accepted LeetCode submissions via GraphQL and logs them into a Notion database.
- Enables students to study data structures and algorithms more efficiently using a Leitner spaced-repetition schedule.

Experience

Private Tutor <i>Self-employed</i>	2021 – 2024 Singapore
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- Tutored secondary and pre-university students. This is where my interest in building tools for teaching began, and where the education projects above came from.

National Service <i>Armament Technician (Admin)</i>	2025 – 2026 Singapore
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- Serving full-time; self-taught programming and built the projects above in parallel.

Technical Skills

Languages: Python
AI / LLM: agent orchestration, tool use, prompt engineering, agent skill development
Concepts: LLM application development, workflow automation, full-stack web development, developer tooling
Web: React, FastAPI, REST APIs
Tools: Claude Code, Claude API, Git/GitHub
Algorithms: 500+ LeetCode problems solved (data structures and algorithms)