Ivan Fang

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EDUCATION

University of California, Los Angeles — Los Angeles, California
Bachelor of Science in Computer Science, GPA: 3.94 — *Expected Graduation: June 2029*
- **Relevant Coursework:** Programming in C++, Multivariable Calculus, Game Development (Unity)
- **Honors:** Samueli Foundation Engineering Undergraduate Scholarship

Hwa Chong Institution — Singapore, Singapore
GCE A-Levels — *Graduated December 2022*
- Achieved perfect score (90/90 Rank Points), placing in the top 10% nationwide.

TECHNICAL SKILLS

Languages: C++, Python, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: React, Node.js, Next.js
Databases & Tools: MongoDB, Git, Docker, Playwright, Prisma

EXPERIENCE

Archimedes Holdings — Singapore, Singapore
Software Engineering Intern — *May 2025 – August 2025*
- Boosted online visibility for Cat Paradise Hotel by developing SEO-optimized landing pages using Next.js and Tailwind CSS, contributing to higher organic traffic and user acquisition for the company's hotel service.
- Integrated Playwright end-to-end tests into CI pipelines to automate checks, ensuring application stability.
- Engineered a data synchronization service to integrate Shopify's GraphQL API with Shopee's REST API, automating inventory management across 200+ SKUs and eliminating the need for manual reconciliation.

Singapore Armed Forces — Singapore, Singapore
Operations & Security Team Lead — *March 2023 – January 2025*
- Led 24/7 Central Monitoring System operations supporting 200+ daily flight operations with full uptime.
- Coordinated security logistics and personnel for the 2024 Shangri-la Dialogue, a high-security international summit with over 500 high-profile attendees, resulting in zero security breaches.

PROJECTS

LionCity Tutors — Singapore, Singapore
Founder — *June 2025 – Present*
- Launched a full-stack tuition marketplace serving 300+ tutors, processing 100+ matching requests in 3 months by building a scalable REST API with Express.js and MongoDB.
- Engineered an automated newsletter pipeline in Node.js to aggregate recent assignments and generate HTML templates; integrated with Sender.net to deliver real-time job alerts to 300+ tutors.
- Developed a Telegram bot to automate profile synchronization and updates, eliminating manual data entry and streamlining communication for the active tutor base.

LEADERSHIP EXPERIENCE

Project Zenith — Singapore, Singapore
Organizing Committee, Math & Science Lead — *October 2021 – June 2022*
- Recipient of the Lim Nai Tian Community Service Award (awarded to only 3 groups annually) for excellence in educational outreach and community impact.
- Spearheaded the academic strategy for a 6-month enrichment program, designing customized curriculum materials that boosted the test scores of 29 underprivileged students by 20%.

Taman Jurong Youth Network — Singapore, Singapore
Organizing Committee — *March 2022 – June 2022*
- Directed a committee of 10 to organize a large-scale community bursary event for 200+ residents graced by government minister.