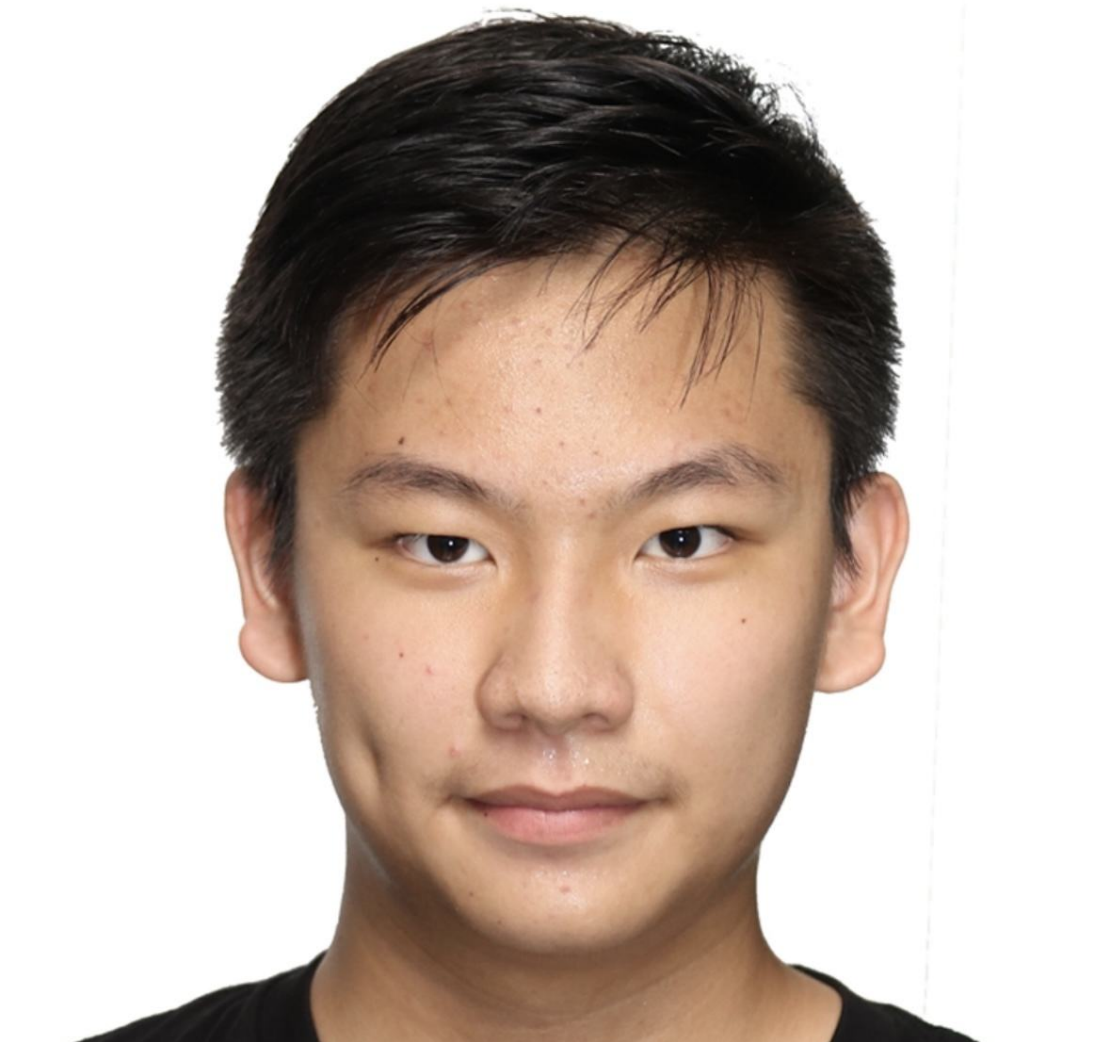




Liang Zhiwei

Aspiring Developer & Software Engineer

About

Aspiring full stack software developer & software engineer with experience in app development, DevOps, cloud computing, and cybersecurity. Passionate in building software systems and automating workflows which solve real world problems and provide value to users.

Technical Skills

Programming Languages

JavaScript (ES6+), TypeScript, Python, C#

Web Development

React, Node.js, Express, Next.js, Flask

Database Systems

MySQL, MariaDB, MongoDB (noSQL)

DevOps & Cloud

AWS, Docker, Git, Google Cloud

Cybersecurity

Network Security, Access Control, Security Principles, Disaster Recovery

UI/UX & Graphics Design

Figma, Adobe Illustrator

Education

2024 - 2027

Nanyang
Polytechnic

Diploma in Information Technology

Cumulative GPA of 3.70/4.
Director's List for AY25S1.
Distinctions: Software Engineering, Full Stack Development Project, Advanced Programming, Database Management Systems.

2020 – 2023

Anderson
Secondary School

Singapore-Cambridge GCE Ordinary Level

Completed and passed a total of 8 subjects in the Singapore-Cambridge General Certificate of Education Ordinary Level with a score (EL1R2B2) of 9.

Extracurricular Experience

2024 - 2027

Nanyang
Polytechnic

NYP Infosec Student Interest Group

Part of the Executive Committee. Organized cybersecurity workshops and competitions for NYP students, created cybersecurity challenges for events. Actively participated in various cybersecurity events and initiatives to promote awareness and skills development.

2020 – 2023

Anderson
Secondary School

Anderson Robotics Club

Part of the Executive Committee. Organized club events and competitions to engage members in robotics and programming. Actively participated in innovation and coding related competitions.

Projects

AI Powered Inventory Management System

Developed a full stack inventory management platform for Ng Guan Seng Woodworking Industrial (NGS) to automate and optimize operations. Built and deployed a React + Express.js application. Engineered an email parsing module to automatically update inventory from supplier emails, reducing manual entry by 90%. Collaborated closely with stakeholders to iterate on requirements, ensuring alignment with business needs and maximizing business value.

more projects on portfolio.liangzhiwei.com.

Soft Skills

- Willingness to Learn
- Adaptability
- Collaboration
- Leadership
- Communication
- Problem Solving
- Critical Thinking
- Time Management
- Conflict Resolution
- Creativity

Certifications

- CC – Certified in Cybersecurity**
Issued by ISC2
- Web Development Fundamentals**
Issued by IBM
- Cybersecurity Fundamentals**
Issued by IBM

Languages

- English**
Native or Bilingual Proficiency
- Chinese**
Native or Bilingual Proficiency

Contact & Website

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References

Bai Jia Hao
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+65 6550 1606

Awards & Competitions

Student Volunteer Recognition Program (SVRP) 2023 - Certificate of Merit

Awarded the Certificate of Merit under the Association of Information Security Professionals (AiSP) SVRP 2023 for Recognized with AiSP SVRP 2023 Certificate of Merit for leading student outreach initiatives that promoted cybersecurity knowledge.

Lockheed Martin CYBERQUEST® 2025 APAC - 3rd Place

Achieved 3rd place in the APAC region for CYBERQUEST 2025. CYBERQUEST® is Lockheed Martin's annual high school cyber competition where students work together to solve cybersecurity challenges.

Singapore AI CTF 2025 - Top 10

Achieved top 10 in the Singapore AI CTF 2025. Singapore AI CTF is a jeopardy-style AI Capture-the-Flag (CTF) organized by GovTech's Cybersecurity Group (CSG) and Cyber Security Agency of Singapore (CSA).

Cybersecurity Agency of Singapore (CSA) CCTF 2023 - Top 15

Achieved top 15 in the central capture the flag competition organized by CSA.

Volunteering Experiences

January 2025 Nanyang Polytechnic	Nanyang Polytechnic 2025 Open House Volunteered to assist in conducting the open house by sharing information regarding the diplomas offered by the School of Information Technology, and conducted workshops to share more about Cybersecurity.
September 2024 Singapore Computer Society	SCS Youth x IMDA workshop 2024 Assisted elderly individuals in learning the basics of instant messaging and email, including fundamental security practices and scam awareness.
October 2024 Cyber Security Agency of Singapore	Singapore International Cyber Week 2024 Represented Nanyang Polytechnic at the event to showcase Android malware analysis software developed in collaboration with the Centre for Strategic Infocomm Technologies.
October 2025 Cyber Security Agency of Singapore	Singapore International Cyber Week 2025 Represented Nanyang Polytechnic at the event to showcase an interactive tool for demonstrating, analyzing, and testing how AI models can be influenced through prompt injection and contextual manipulation.