

Lee Jia Quan

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Internship period: Jun 2026 – Dec 2026 | Expected graduation: Early Dec 2026

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

Aug 2024 - Present

Bachelor of Computing in Computer Science (*Expected to graduate early Dec 2026, unless accepted for internship*)

- Cumulative GPA of 4.48
- Obtained the Certificate of Distinction in the Computer Security Focus Area as of 7 July 2025

NATIONAL UNIVERSITY OF SINGAPORE

Aug 2023 - Jul 2024

Bachelor of Computing in Information Security

SINGAPORE POLYTECHNIC

Apr 2018 - Mar 2021

Diploma in Infocomm Security Management

- Final Cumulative GPA of 3.696
- CCA Grade of Gold w/ Honours

SINGAPORE POLYTECHNIC

Apr 2017 - Mar 2018

Polytechnic Foundation Program

EXPERIENCE

NATIONAL UNIVERSITY OF SINGAPORE *Teaching Assistant*

Jan 2024 - Present

- Guided students through fundamental Data Structures and Algorithms concepts, including Sorting Algorithms, Linked Lists, BST, Heaps, Hash Tables, Union-Find, Shortest Path Algorithms, and Minimum Spanning Trees
- Supported students in mastering critical thinking and algorithmic problem-solving skills essential for careers in software development and engineering

DSO NATIONAL LABORATORIES *Software Engineer*

Mar 2021 - Sep 2021

- Developed a full-stack web application to streamline workflows, improving overall task efficiency & operational productivity, with focus on secure and efficient user authentication, leveraging knowledge from Diploma to implement robust login session management
- Leveraged AMPPS to create a reliable and responsive environment for back-end functionality and DBMS

DSO NATIONAL LABORATORIES *Intern*

Sep 2020 - Feb 2021

- Researched and analysed cryptographic primitives used in Key Derivation Functions (KDFs), focusing on their security properties and suitability for hardware implementation
- Designed and implemented KDF architectures on Field Programmable Gate Arrays (FPGAs) to optimize performance, security, and flexibility in hardware-based cryptographic applications

CYBER YOUTH SINGAPORE (CYS) *Manager, Talent Development Team*

Jan 2020 - Jul 2020

- Volunteered to create and organize programs aimed at fostering interest within the cybersecurity field, providing youth with a platform to explore career paths and build foundational skills

PROJECTS

PeerPrep – Full-Stack Developer (Agile Team)

Jan 2026 - Apr 2026

- Developed a full-stack web application using React (TypeScript) and FastAPI, following microservice architecture principles within an agile Scrum environment
- Created Figma prototypes and wireframes, accelerating frontend handoff by integrating design workflows.
- Helped to implement Firebase Authentication and Cloud Firestore to handle secure user sign-in and real-time data persistence, strengthening my experience with the Firebase platform
- Integrated Generative AI capabilities through engineered prompts to deliver real-time user feedback and guidance via an interactive ChatBox feature

Personal Chess Bot

Dec 2024 - Jan 2025

- Developed a working chess bot on my portfolio website using Next.js with Flask, implementing varying algorithm and heuristic optimization for my various bot versions (E.g. Mini-max with Alpha-Beta pruning)

TECHNICAL SKILLS

Languages: Java, Python, C/C++/C#, SQL (Postgres), JavaScript, TypeScript, HTML/CSS, R, VHDL

Framework: React, Node.js (Fastify + TypeBox), Flask, FastAPI, Unity

Developer Tools: Git, Docker, VS Code, Visual Studio, IntelliJ, Eclipse, Android Studio, AMPPS, Figma

Libraries: pandas, NumPy, Matplotlib, PyTorch, Scikit-learn, XGBoost, RDKit

Machine Learning Models: Linear/Logistic Regression, SVM, XGBoost, Clustering (K-Means, K-Medoids), Neural Networks (RNNs, CNNs)