

# LEE KEE

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A proactive Computing Science undergraduate experienced in full-stack development, programming, and system design. Passionate about building scalable, efficient software systems to drive business outcomes. Seeking a software developer role to contribute to innovative projects and further develop technical expertise.

## SKILLS/EXPERIENCE

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- Programming: Python, Java, C, C++, C#, PHP, JavaScript, SQL
- Frameworks: FastAPI, Spring Boot, Next.js, PyTorch
- Technologies: Linux, Docker, Kubernetes, Godot, Unity, MongoDB, MySQL, Firebase
- Tools: GitLab, Tableau, CI/CD Pipelines, Figma

## EMPLOYMENT HISTORY

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### Quality Assurance Intern

PSA International, Singapore | Sep 2024 – Apr 2025 (Present)

- Designed and implemented solution architecture for an automated end-to-end testing application for a capstone project, streamlining software quality processes (see Projects).
- Executed 120–300 test cases per project for global systems, enhancing reliability and compliance.
- Developed defect analysis tools, reducing reporting efforts by 50%.
- Raised defects, assisted with troubleshooting, and managed daily reports.
- Collaborated with cross-functional teams to deliver high-quality software adhering to Agile practices.

### Java Developer

Cognizant Technology Solutions, Singapore | Jul 2021 – Aug 2022

- Provided technology consulting services in the banking & finance sector, configured build automation tools and migrated CI/CD pipelines for client banking applications from TeamCity to GitLab with Ansible in Agile teams.
- Developed RESTful APIs using Java and Spring Boot, and automated backend testing with JUnit.

## PROJECTS

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### AI Automation Software for QA (Capstone Project)

- Built an AI-powered application for test script automation, reducing manual efforts by 30%.
- Tech stack: RESTful APIs with FastAPI, Angular, PostgreSQL, and OpenAI API integration.
- Designed, implemented, and successfully pitched the solution to department management.
- Integrated Docker for scalable deployments and performed load testing with Locust.

### LabEquip Mobile Application

- Designed backend systems for an educational app to identify lab equipment using PyTorch and Kotlin.
- Built object detection and database systems to support safe lab equipment usage.

### Mimibot - AI Chatbot with Data Visualisation for Children's Development

- Global Semi-Finalist project at the Microsoft ImagineCup 2021 (Team Mimibot)
- Web Application with chatbot integration (Google Nest) that interacts with children to check in on their mental and developmental well-being by detecting key phrases and prompting further conversation.
- Tech stack: Angular, Azure Web Apps, Google DialogFlow, Google Nest, Google Firebase, NodeJS, BrainJS, ChartJS.

## LEADERSHIP

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### Executive Committee Member (Senior Ambassador), SIT (School of Information Technology) Club | Nanyang Polytechnic

- Led teams of 10-20 for school events and organised IT-related events.
- Nominated as Logistics Assistant-in-Charge (AIC) to manage logistics for a 300+ participant event for the 2019 Freshman Orientation, and emceed for the event.

### Vice-President, Current Affairs & Debate Club | Nanyang Polytechnic

- Planned and facilitated club events, trainings, and competitions.
- Practiced public speaking, presentation, and communication skills.

## **COURSES / CERTIFICATIONS**

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- Cloud Technologies/Others: AWS Academy Cloud Foundations, AWS Academy Cloud Architecting, Azure Fundamentals AZ900, Google Data Analytics Professional Certificate, UiPath Robotic Process Automation (RPA) Development
- Languages: French, Diplôme d'Études en Langue Française (DELF) A1 Examination

## **EDUCATION**

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### **Singapore Institute of Technology and University of Glasgow**

Bachelor's Degree in Computing Science (Specialization in Internet-of-Things (IoT)) | 2022 – Graduating May 2025

- Coursework: IoT Systems, Full-Stack Development, Artificial Intelligence/Machine Learning, System Architecture, and Cloud Computing.
- Teaching Assistant for the Introduction to Computer Systems (INF1101) module for 2 semesters, guiding students in Python programming and Linux command-line fundamentals.

### **Nanyang Polytechnic**

Diploma in Information Technology (Specialization in Business Analytics) | 2018 – 2020

- Received the IMDA (Infocomm Media Development Authority) IPoly Scholarship.
- Familiarized with multiple technology stacks, frameworks, and programming best practices.
- Active EXCO member, organizing and facilitating school IT-related events.