KOH JIN HONG, LUCAS

Master of Science Candidate, Electronic Engineering

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SUMMARY

Highly motivated M.S. Computer Science graduate (expected Aug 2025) with a strong foundation in software engineering, specializing in backend systems, cloud (AWS), automation, and network infrastructure. Proven ability in the full development lifecycle, network configuration, and troubleshooting. Eager to apply expertise in Python, Node.js, AWS, Docker, and Jenkins to a challenging Software Engineer role.

EDUCATION

Master of Science, Electronic Engineering

National Taipei University of Technology | 2023 - Expected Aug 2025

- Researched & Authored graduate paper on Distributed Link Scheduling for IAB Networks, investigating Layer 2 5G architecture and implementing an optimized packet forwarding algorithm.
- Configured and deployed FortiGate security tunnels and firewalls for Taiwan Space Agency projects, enhancing network security.
- Served as Teaching Assistant for Master's level Python, C, and Algorithms courses, supporting students and faculty.
- Resolved network connectivity issues (IP conflicts, configuration errors) at the university's computer networking centre.

Bachelor of Science, Electronic Engineering

National Taipei University of Technology | 2019 - 2023

- Architected and implemented a secure user login system server using Node.js, MongoDB, and AWS for backend infrastructure.
- Designed and developed a visual novel game prototype, architecting its core Python-based engine and UI with PyQt6.

EXPERIENCE

Junior Firmware Engineer (Intern)

Sierra Wireless | 2022 - 2023

- Engineered and deployed an automated firmware testing testbed using Docker, Jenkins, and Ansible, significantly streamlining CI/CD pipelines and nightly validation workflows.
- Executed comprehensive validation and regression testing for new firmware releases; meticulously identified, documented, and reported defects using Jira to ensure product quality.

SKILLS

- **Programming Languages:** Python, JavaScript (Node.js), C, C++
- **Backend & API Development:** Node.js, MongoDB, AWS (EC2), RESTful APIs, JWT
- **Automation & DevOps:** Docker, Jenkins, Ansible, CI/CD Pipelines
- **Networking & Security:** TCP/IP, FortiGate (Firewalls, Security Tunnels), Network Configuration & Troubleshooting, 5G Architecture, IAB Networks
- **Development Tools & Platforms:** Git, Linux, Jira
- **Databases:** MongoDB
- **Languages:** Chinese (Fluent), English (Proficient, TOEIC: 825)