Megan Loo Jia Vern

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Professional Experience

Software Automation Engineering Intern — **Advanced Micro Devices (AMD)** — *May 2025 – Aug 2025*
- Built AI models to automate log parsing, clustering, and ticket prediction, significantly reducing triaging time and improving issue traceability
- Applied semantic text modeling and log template extraction to structure and classify unstructured log data
- Integrated NLP techniques (e.g., embedding-based similarity, regex heuristics) to improve log interpretation accuracy
- Supported tools used by clients on anomaly detection workflows to flag rare or error-prone system events

AI Algorithm Engineer Intern — **Global One Click - Shenzhen, China** — *Jan 2024 – July 2024*
- Developed and optimized AI prediction and recommendation algorithms, focusing on user engagement and retention.
- Collected and analyzed user behavior data to construct profiles for driving targeted ads, significantly improving ad campaign ROI and scalability.
- Created data-driven reports leveraging analytics and visualization tools to assist clients in identifying the right audience.

Software Engineer Intern — **Computing for Voluntary Welfare Organisations** — *May 2023 – July 2023*
- Played a pivotal role in the migration of LBSA frontend from Rails to React - Ported 42 modules (150+ pages) in 12 weeks
- Introduced features including LSA Report, mass alert import, new calendaring view for staff and Singpass 2FA authentication redirect workflow

Software Engineer Intern — **Protos Labs Insurtech Company** — *Jan 2022 – July 2022*
- Gained experience in software development, encompassing both frontend (ReactJS) and backend (Serverless with Python)
- Assisted in data extraction and cleaning processes with pandas
- Assisted in the creation of a dynamic PDF template generator, enhancing the flexibility and customization of client reports
- Architected entire authentication system through AWS Cognito, ensuring system security and reliable user authentication

Research Intern — **Crystal Dynamics Cybersecurity** — *Dec 2020 – Jan 2021*
- Assisted in data collection and manipulation of device logs, facilitating research efforts
- Developed a data generator for the company's flagship product using Regex
- Mapped diverse IoT device formats, establishing connections to cybersecurity frameworks (NIST, MITRE)

Education

BSc Computer Science — **National University of Singapore** — *2022 - 2026*
Focus Area in Artificial Intelligence & Software Engineering with Minor in Data Science & Analytics,
Awarded ASEAN Undergraduate Merit Scholarship, Enrolled in Honours College of NUS (NUS College)
Recipient of NUS Venture Initiation Programme (VIP) Award

Leadership Experience

Vice President — **Computing for Voluntary Welfare Organisations** — *May 2023 – May 2024*
- Oversee the recruitment and application process for CVWO's 2024 Summer Internship program.
- Manage marketing, outreach, documentation of meetings, discussions, and decision for CVWO.
- Ensure effective communication with external clients like LBSA & GIC

Tech Director — **NUS Honours College** — *Oct 2023 – Sept 2024*
- Developed an empowering platform for college space bookings and student life insights exchange [link]

Projects

Inkram [link] — **Singapore & Thailand**
Built a full-stack website for Inkram, an organic product brand rooted in the village of Mae Chon, Thailand, to showcase their locally sourced produce and support sustainable farming practices. This was part of a two-year school project dedicated to supporting villagers facing statelessness and enhancing the livelihoods of the local community.

PeerPrep [link] — **Singapore**
Developed a full-stack website, called PeerPrep, where users can connect with peers for collaborative coding practice to prepare for technical interviews. Features included such as a live code editor, categorized problem sets, and tools for mock interviews. Built using Java Spring Boot for the backend and React for the frontend.