

O Jing

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EDUCATION

Nanyang Technological University, Singapore
Bachelor of Engineering in Computer Engineering

Aug 2022 – May 2026

- cGPA: 4.56/5.00.
- Relevant Modules: Data Structure & Algorithms, Algorithm Design & Analysis, Object Oriented Design & Programming, Operating Systems, Computer Network, Advanced Software Engineering.

EXPERIENCE

SAP, Full Stack Intern

Jan 2025 – Present

- Integrated Dynatrace, hosted on CloudFoundry, with backend services to streamline internal metric tracking and system monitoring.
- Engineered a robust daemon thread feature that integrates an automated data purging service, ensuring SAP product compliance while bolstering overall system reliability.
- Integrated Locust-based performance testing into the Jenkins CI pipeline, optimising deployment cycles and overall system performance.

Micron Technology, SSD Firmware Validation Intern

May 2024 – Aug 2024

- Designed a smart automation system to collect and analyse time series SSD test data, reducing teams' manual data processing time by **40%**, expediting real-time decision-making.
- Developed an interactive dashboard using React.js, Redux, and APEX Charts for real-time anomaly visualisation, integrating FastAPI with an SQL database and a machine learning service to enhance data insights.
- Implemented unsupervised machine learning algorithms using Scikit-learn and Keras TensorFlow to detect anomalies in datasets, achieving an **87% detection rate** and enabling early identification of potential firmware issues.

ACADEMIC PROJECTS

Software Engineering Project

Feb 2024 – May 2024

Title: BTOgether

- Engineered BTOgether, an innovative application enabling young couples in Singapore to manage, view, and evaluate Build-To-Order apartment flats, achieving a **30% reduction** in property evaluation time.
- Developed responsive interfaces using React.js and integrated Firebase for secure authentication and real-time data synchronisation, resulting in improved performance and a **90% user satisfaction rating**.
- Documented software requirements specification throughout the software development lifecycle, including drafting use cases and designing black-box tests, resulting in a comprehensive 80-page technical report.

AWARDS & ACHIEVEMENTS

Title: Escendo Hackathon 2024

Jan 2024 – Jan 2024

- Awarded **Micron Sponsor's Choice Award** for the development of the "Tipping Hat", utilising ESP32/-S3 microcontrollers to address heat stress challenges faced by migrant workers.
- Demonstrated expertise in cloud integration and communication protocols (HTTPS/MQTT) to enable real-time monitoring and alerts, ensuring scalability and reliability.

Title: IEEE NUS x NTU Aquaponics Hackathon 2023

Aug 2023 – Aug 2023

- Won **Championship** at the IEEE NUS x NTU Aquaponics Hackathon 2023 among **50+** teams for developing the innovative "CloudSensor" monitoring system.
- Spearheaded the codebase using C++ for the ESP32 microcontroller, integrating AWS S3 for secure data storage and leveraging Grafana for dynamic visualisation of system performance.

SKILLS

Programming: Python, Java, JavaScript, HTML, CSS.

Technologies: React.js, Next.js, Node.js, Express.js, Firebase, FastAPI, Docker, MySQL, PostgreSQL, MongoDB, AWS.

Tools: Git, GitHub, Bitbucket, Jira, Microsoft Teams, Jenkins.