O Jing

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EDUCATION

Nanyang Technological University, Singapore   Aug 2022 – May 2026

Bachelor of Engineering in Computer Engineering, cGPA: 4.56/5.00.

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

EXPERIENCE

ByteDance, Software Engineer Intern   Jun 2025 – Present

- Led the development of a Know-Your-Customer (KYC) workflow to support TikTok's Refund-to-Credit rollout in Thailand, reducing suspicious fund activity by **9%**.
- Introduced a backup KYC vendor for TikTok's User Growth business line in Japan, **eliminating a single point of failure** and ensuring continuous compliance processing during vendor outages.
- Optimised KYC workflow with an OCR-only solution for ByteDance's upstream business lines, accelerating document processing by reducing OCR result retrieval time by **45%**.
- Designed an automated KYC vendor evaluation system in Go, leveraging goroutines and concurrency primitives for faster asynchronous processing, reducing manual effort by **30%** and streamlining vendor management at ByteDance.

SAP, Full Stack Developer Intern   Jan 2025 – May 2025

- Deployed Dynatrace and Grafana dashboards for SAP's personalised recommendation services on CloudFoundry, enabling real-time metric tracking and reducing issue resolution time by **20%**.
- Designed and implemented an automated data purging background service, reducing database storage overhead by **15%**, preventing performance degradation, and ensuring long-term database stability.
- Built and integrated performance testing into the Jenkins CI/CD pipeline, automating reporting and reducing manual intervention by **40%**, thereby accelerating system performance feedback loops.

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 Tailwind 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, BTOgether   Feb 2024 – May 2024

- Spearheaded 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**.

NUS x NCS Hackathon, Encore   Feb 2024 - Mar 2024

- Developed Encore's Backend System, integrating Gemini LLM to optimise transportation logistics and APIs like LTA DataMall to collect real-time data on public transportation, enhancing data accuracy and operational efficiency.
- Created a RESTful API using Flask to connect the backend and frontend systems and containerised the application with Docker for scalability and efficient deployment.

AWARDS & ACHIEVEMENTS

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.

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.

SKILLS

Programming: Go, Python, Java, JavaScript, HTML, CSS.
Technology: React.js, Next.js, Node.js, Express.js, Docker, Jenkins, MySQL, PostgreSQL, MongoDB, AWS.
Tools: Git, GitHub, Bitbucket, Jira, Slack, Microsoft Teams, Lark.