

## Tan Jing Yi

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### OBJECTIVE

Motivated Computer Science undergraduate with practical experience in software engineering, seeking internship opportunities (May - Aug 2025) and full-time roles starting Jan 2026.

### EXPERIENCE

#### Micron Semiconductor Asia Pte Ltd

Jun 2024 - Dec 2024

##### Software Engineering Intern, IT Manufacturing

- Developed a scalable microservice to enable event-driven communication across multiple applications, reducing latency for critical manufacturing operations.
- Optimised microservice performance by implementing safe, concurrent task execution, increasing throughput under load.
- Refined user interfaces using the company's Angular-powered UI framework, streamlining user experience and enhancing security.
- Implemented automated CI/CD pipelines in Azure DevOps, streamlining build, test, and deployment processes to OpenShift, ensuring faster, more reliable releases.

#### AidMi

Aug 2024 - Oct 2024

##### Full-Stack Software Engineer

- Spearheaded the end-to-end development of a full-feature prototype within 2 months, attracting investors and securing first place at the NUS Social Impact Catalyst Pitch Day.
- Collaborated with an AI Engineer to integrate a chatbot for collecting patient medical anecdotes, ensuring seamless data flow for accurate insights to support psychiatric assessments.
- Adopted an iterative development approach, delivering incremental updates and incorporating user feedback, ensuring the product met the evolving business requirements.

#### Security and Risk Solutions PTE LTD

Sep 2021 - Feb 2022

##### IT Intern

- Developed and maintained the Security Management System, a critical tool for managing over 50 security guards deployed across Singapore, improving operational efficiency and oversight.
- Collaborated with security personnel to implement a real-time communication system, facilitating the swift relay of time-sensitive information during emergencies.
- Developed a prototype surveillance system using Computer Vision for asset tracking, laying the foundation for the company's exploration into AI with IoT technologies.

### EDUCATION

#### Nanyang Technological University, Singapore

Aug 2022 – Jan 2026

##### Bachelor of Computer Science

- SCSE IT Sub-Committee Member
- SCSE TOP Orientation Group Leader
- Modules: Algorithms, Operating Systems, Computer Networks, Database Systems, Machine Learning

#### Singapore Polytechnic, Singapore

Apr 2019 - Mar 2022

##### Diploma in Information Technology

- Software Development Specialisation, GPA 3.739
- Certificate in Academic Achievement (2019), Certificate in IoT (2022)
- Modules: Front-End Web Development, Back-End Web Development, Software Engineering Practice, Design for User Interaction, Database Engineering, Secure Coding, Internet of Things

### TECHNICAL SKILLS

- Languages: C, C#, Java, Python, JavaScript, TypeScript
- Backend Development: Express, ASP.NET Core, Docker, Kubernetes, SQL, MongoDB
- Frontend Development: HTML, CSS, JavaScript, React, Angular, TypeScript
- Application Development: React-Native, Android Development (Java)
- Cloud: Azure DevOps, OpenShift, Solace PubSub+, Supabase

### CERTIFICATIONS

- Google Data Analytics

May 2024