

Tan Jing Yi

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SUMMARY

Computer Science undergraduate (graduating January 2026) with full-stack development experience in Python, TypeScript and cloud technologies. Seeking full-time Software Engineering positions for 2026.

WORK EXPERIENCE

Intellectual Property Office of Singapore (IPOS)

May 2025 - Aug 2025

API Engineering Intern

- Implemented an automated system using AI prompt engineering with web search tools in Python, increasing operational efficiency for IPOS Officers.
- Deployed an event-driven architecture using Terraform to manage AWS resources such as Lambda and SQS, ensuring consistent, scalable, and secure deployments.
- Automated system deployment using GitLab CI/CD pipelines and templates from SHIP-HATS, ensuring compliance with industry pipeline security practices.

Micron Semiconductor Asia Operations Pte Ltd

Jun 2024 - Dec 2024

Software Engineering Intern

- Developed a scalable C# .NET microservice as an adaptor layer to enable event-driven communication among existing HTTP applications, reducing migration effort for legacy applications transitioning to Solace messaging.
- Designed microservice architecture following hexagonal architecture principles, ensuring clean separation of concerns and maintainable code structure.
- Optimised microservice performance by implementing safe, concurrent task execution, improving throughput under high load conditions.
- Built user interfaces using Micron's internal enterprise UI framework with Angular and TypeScript for authentication and compliance, improving production visibility and operator workflows.
- Automated CI/CD pipelines in Azure DevOps with Docker containerisation, facilitating efficient builds, tests, and deployments to Red Hat OpenShift.

Security and Risk Solutions PTE LTD

Sep 2021 - Feb 2022

IT Intern

- Maintained Security Management System written in Django, a critical tool for managing incident reports and asset tracking, improving operational efficiency and oversight.
- Developed a mobile application in React Native, integrating it with the management system via APIs, contributing to enhanced security management for security personnel.
- Integrated real-time communication to the system using web sockets and Firebase Cloud Messaging, ensuring swift relay of time-sensitive information during emergencies.
- Created a proof-of-concept surveillance system using Computer Vision for asset tracking, initiating the company's exploration into AI with IoT technologies.

PROJECTS

AidMi: Pre-Consultation Platform for Psychiatric Care

Full-Stack Software Engineer

Aug 2024 - Oct 2024

- Collaborated with Team AidMi to develop a pre-consultation prototype for psychiatric care using React and Supabase, securing first place at the NUS Social Impact Catalyst Pitch Day and attracting investor interest.
- Built and integrated a chatbot with an AI Engineer for patient data collection, ensuring seamless data flow to support psychiatric assessment workflows.
- Incorporated stakeholder feedback in iterative sprints, adapting features to meet evolving business requirements.

EDUCATION

Nanyang Technological University, Singapore

Aug 2022 – Jan 2026

Bachelor of Computing (Computer Science)

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

- Software Development Specialisation, GPA 3.739
- Certificate in Academic Achievement (2019), Certificate in IoT (2022)
- Modules: Front-End Development, Back-End Development (Node.js), Mobile Application Development (Java), Software Engineering Practice, Secure Coding, Internet of Things

SKILLS

- Languages: Python, JavaScript, TypeScript, C#, Java
- Backend Development: Node.js, .NET, RESTful APIs
- Frontend Development: React, Angular, HTML, CSS, React Native
- Databases: SQL, Supabase, DynamoDB, MongoDB
- Cloud: Terraform, Docker, Amazon Web Services (AWS), Azure DevOps, GitLab CI/CD