TAN JUN HUI

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EDUCATION

SINGAPORE MANAGEMENT UNIVERSITY   **Aug 2021 – May 2025**
Bachelor of Computer Science (AI & Cybersecurity)
Double Major in IT Solution Development (AI & Cybersecurity) and
Technology for Business Solution (DCS)
- **Honors:** Cum Laude
- **GPA:** 3.5 / 4.00
- Dean's list AY24-25, SMU Aspirations Scholarship 2021-2025
- Teaching Assistant (Computer Hardware and Embedded Systems)

PROJECTS

Capstone Project: Twinsies (Role: Fullstack developer & Scrum Master)   **Aug 2024 – Nov 2024**
Develop Gen AI-powered digital twin for education to automatically generate personalized learning recommendations
- Designed and implemented a backend microservice using Express.js to manage student course enrolments, supporting CRUD operations via RESTful APIs
- Built ReactJS frontend pages and seamlessly integrated them with the backend
- Facilitated sprint planning and managed technical backlog on Jira, ensuring sprint velocity in the team
- Integrated OpenAI API to generate personalized recommendations, feedback, and summary evaluations for students
- Applied prompt engineering techniques to enhance the accuracy and relevance of AI-generated responses
- Containerized the application with Docker and established a CI/CD pipeline for automated deployment
- Conducted extensive testing using Mocha and Chai to ensure reliability and performance

Ellipsis Tech Series Hackathon 2024: Petal   **Aug 2024 – Sep 2024**
Won most creative award, develop a mobile app with Gen AI features to tackle environmental challenges
- Designed and developed frontend pages for the mobile app using React
- Developed endpoints to seamlessly integrate with the backend

AWS Ascenda Admin Portal   **Jan 2024 – Apr 2024**
Developed and deployed the Ascenda Admin Portal, a platform fully utilizing AWS services
- Collaborated with Ascenda Loyalty on developing a Web Application hosted on AWS for user management, and emphasis on Role-Based Access Control
- Developed microservice using python and AWS Lambda, following SOLID principles for maintainability
- Implemented a robust logging system that records user actions, utilizing AWS Aurora for hot/cold storage

UnfairPrice   **Aug 2023 – Nov 2023**
UnfairPrice is an e-commerce webapp with complete buying and selling experience, and thorough DevOps practices
- Designed and developed frontend pages for the webapp using VueJS
- Developed endpoints in frontend to seamlessly integrate with backend microservices
- Deployed using Docker and Kubernetes and develop a complete CICD pipeline

WORK EXPERIENCE

IT Specialist at Pan Pacific Orchard (Part-Time)   **Aug 2024 – Oct 2024**
IT Intern at Pan Pacific Orchard (Full-Time)   **Jun 2024 – Aug 2024**
- Provided technical support for hardware, software, hotel IT applications, and connectivity issues
- Coordinated with vendors on IT systems, including PMS, POS, and cloud-based applications
- Managed procurement, configuration, and deployment of end-user devices
- Installed and maintained operating systems, business applications, and security updates
- Handled user onboard/offboarding, account provisioning, and access management
- Managed data backup, recovery, and compliance for end-user devices

SKILLS & INTERESTS

- **Certifications:** AWS Certified Solutions Architect – Associate, Oracle Certified Foundations Associate Java, Google IT automation with Python
- **Programming Languages:** C, Java, Python, SQL, JavaScript
- **Data and Analytics**: Machine Learning, Web scraping, Tableau & Gen AI
- **Web Development/Frameworks**: FastAPI, Streamlit, Spring Boot, React, VueJS, Express.js
- **DevOps:** Docker, Kubernetes, CI/CD pipeline development
- **Language fluency:** Effectively bilingual in English and Mandarin