Timothy Teh • Full-Stack Software Engineer
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LinkedIn | Personal Website | GitHub

WORK EXPERIENCE

OKX SG Pte. Ltd.   July 2025 - Present
Android Software Developer
- Own and maintain UI components in an internal shared Android UI library used across all Android squads, improving consistency and development velocity.
- Collaborate closely with designers and multiple product teams to design, implement, and iterate on reusable UI components
- Revamped internal demo applications to significantly improve developer experience and onboarding for Android engineers
- Contributed to CI/CD workflows and code reviews to maintain high code quality across shared components
- **Tech Stack**: Kotlin, Java, Android Studio, IntelliJ IDEA, GitLab, Jenkins, React

Visa Worldwide Pte Limited   May 2024 – Aug 2024
Full-Stack Software Developer
- Developed and shipped full-stack features for Visa Resolve Online (VROL), a payments dispute platform used by UK Open Banking members
- Built and integrated frontend and backend features in close collaboration with engineers and product managers
- Designed and consumed RESTful APIs, performed API testing, and supported production releases
- Contributed to agile ceremonies, sprint planning, and technical documentation
- **Tech Stack**: TypeScript, React, Java, Spring Boot, Postman, Git, Jira, Confluence

Govtech Singapore   Jan 2024 – May 2024
Full-Stack Software Developer
- Built and maintained full-stack features for CrowdTaskSG, to support the Great Budget Meal Hunt campaign in partnership with HDB
- Collaborated in a cross-functional agile team with developers, designers, QA engineers, tech leads, and product managers
- Implemented new landing pages, error screens, UI bug fixes, backend APIs, and refactored legacy code for improved maintainability
- Added unit tests and contributed to system reliability and code quality
- Conducted technical spikes on Telegram bot authentication, push notifications, and Google Sheets automation
- **Tech Stack:** React, Next.js, Tailwind CSS, PostgreSQL, TypeORM, Jest, GitLab, Jira

Defence Science and Technology Agency, Singapore   May 2023 – Dec 2023
Full-Stack Software Developer
- Collaborated with a team of engineers to design, develop, and deploy an AI Assistant application for the Singapore Armed Forces (SAF)
- Built frontend interfaces and backend APIs, and deployed production systems using containerized workflows
- Integrated LLMs into a web application, including building profiling and recommendation components
- Implemented unit and integration tests following TDD principles
- Worked in an agile environment delivering iterative improvements
- **Tech Stack**: Python, TypeScript, React, Flask, Node.js, Express.js, Docker, Weaviate, Neo4j, Elasticsearch, PyTorch, CUDA, Git, Jira, Confluence, Cypher Query Language

Accenture Pte Ltd, Singapore   May 2022 – Aug 2022
Technology Consultant Intern
- Supported the deployment of Workday across 12 civil agencies as part of Singapore's Whole-of-Government (WOG) cloud migration initiative (Project Cumulus)
- Assisted in data migration, configuration, and validation to streamline HR and data management workflows
- Gained exposure to enterprise systems, stakeholder management, and large-scale government transformation projects
- **Tech Stack**: Excel, Workday, Clover

EDUCATION

Nanyang Technological University, Singapore   Aug 2020 – May 2025
Bachelor of Engineering Science (Computer Science) with a Master of Science in Technology Management
- Honours (Highest Distinction), GPA: 4.51/5.00
- **Relevant Coursework:** Software Engineering, Data Science, Algorithmic Design & Analysis, Data Structures & Algorithms, Object Oriented Programming (Java, C++), Relational Databases (SQL, MySQL), Operating Systems, Neural Networks & Deep Learning (Pytorch), Natural Language Processing, Data Analytics & Mining, Advanced Computer Networks

The University of British Columbia, Vancouver   Sep 2022 – May 2023
- 1-year exchange program studying Computer Science
- **Relevant Coursework:** Artificial Intelligence, Applied Machine Learning, Computer Vision, Cybersecurity, Internet Computing, Advanced Relational Databases, Entrepreneurship

PROJECTS & EXTRA-CURRICULARS

timothyteh.dev   Dec 2025
Personal Blog & Portfolio Website
- Designed and built a personal blog and portfolio to share articles and projects on software engineering

- Implemented MDX-based content system and interactive UI components
- **Tech Stack:** Next.js, React, TypeScript, Tailwind CSS, MDX, Three.js, Vercel

PrepQuest (iOS & Android App)   May 2025 - Present
Full-Stack Mobile Developer
- Designed and developed a cross-platform AI-powered flashcard app as a solo developer
- Implemented an offline-first architecture supporting multiple study and quiz modes
- Built end-to-end system covering product design, frontend, backend, and authentication
- Integrated multiple LLM providers for intelligent content generation
- **Tech Stack**: React Native, Expo, Supabase, Clerk, SQLite, Google Cloud, Vercel, DeepSeek, Claude, Lottie, EAS, Figma

UBS Global Coding Challenge   September 2024
- Achieved 1st Place (Champion) out of 22 teams in a competitive programming challenge
- Solved algorithmic and problem-solving challenges under time constraints
- **Tech Stack:** Python, Flask

Final Year Project: Time Series Forecasting   August 2024
- Researched and implemented methods to improve time-series forecasting accuracy through enhanced data ingestion and preprocessing
- Experimented with feature extraction and hyperparameter optimization
- **Tech Stack:** Python, PyTorch, TSFresh, Optuna, DeepAR

Software Engineering Project: Mobile Application for Golfers
- Developed a mobile application which collects data from a bluetooth electronic module on a golf club to display useful information of the golfer's swing, such as its lie angle, shaft lean and speed of swing.
- **Tech Stack:** Flutter, Figma

Software Engineering Project: Mobile Application for Bird Watchers
- Developed a mobile application which displays information of bird sightings history on a google map for avid bird watchers.
- **Tech Stack**: React Native, Figma