Timothy Teh
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WORK EXPERIENCE

OKX SG Pte. Ltd.   July 2025 - Present
Android Software Developer
- In charge of updating and improving UI components in internal shared library, used by all Android development squads
- Worked closely with designers and other development squads on multiple UI components and projects
- Revamped existing demo page applications for better developer experience of engineers
- **Technologies used**: Android Studio, Kotlin, Gitlab, Jenkins, Cursor

Visa Worldwide Pte Limited   May 2024 – Aug 2024
Full-Stack Software Developer
- Full-Stack Software Development for VROL (Visa Resolve Online), a payments dispute platform used by members of UK Open Banking. Worked closely with colleagues and team members to develop and push multiple features for the web-app to bring value to the business
- **Tech Stack**: TypeScript, React, Postman, Jira, Confluence, Git, Java, Spring Boot

Govtech Singapore   Jan 2024 – May 2024
Full-Stack Software Developer
- Full-Stack Software Development for CrowdTaskSG (Great Budget Meal Hunt campaign in partnership with HDB)
- Worked closely with developers, designers, quality engineers, tech leads and product managers to push out features and fix software issues both in frontend and backend, in an agile setting.
- Built features such as new landing page, error screens, UI bug fixes, unit testing, backend APIs, refactoring of codebase, spiking on telegram bot sign-in to CrowdTaskSG portal and push notifications, google sheet automation
- **Tech Stack:** React, Tailwind CSS, Next.js, PostgreSQL, TypeORM, Jest, Gitlab, Jira

Defence Science and Technology Agency, Singapore   May 2023 – Dec 2023
Full-Stack Software Developer
- Collaborated with a team of software engineers to develop and deploy an AI Assistant application for the SAF
- **Tasks**: Frontend Web Development, Backend Development (Building APIs), Deployment, Integrating Large Language Models (LLMs) with Web Application, Building a Profiler and Recommender System, Unit/Integration Testing
- **Skills & Knowledge**: Full-Stack Web Development, Recommender Systems, Agile Development, Test Driven Development
- **Tech Stack**: Python, TypeScript, React, Flask, Node.js, Express.js, Postman, Docker, Weaviate Vector Database, Neo4j Graph Database, Cypher Query Language, Elastic Search, Jira, Confluence, Cuda, Pytorch, Git

Accenture Pte Ltd, Singapore   May 2022 – Aug 2022
Technology Consultant Intern
- Deployed Workday to 12 civil agencies to facilitate whole-of-government (WOG) cloud migration process (Project Cumulus) from individual legacy systems to achieve streamlining of data management for the government
- **Technologies used**: 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
- Built a personal website to write blogs on software and backend engineering, and to showcase my portfolio and projects
- **Tech Stack:** Next.js, React, TypeScript, Tailwind CSS, MDX, Vercel, Three.js

PrepQuest (iOS & Android App)   May 2025 - Present
Full-Stack Mobile Developer
- As a solo founder and developer, I designed and built a cross-platform AI Flashcard app for students and interview goers.
- It features an offline-first user experience, and a myriad of methods for deck creation and studying/quizzing flashcards
- Handlled everything from conceptualisation, design, frontend development and backend development
- **Tech Stack**: React Native, Expo, Figma, Supabase, Clerk, Vercel, Google Cloud, DeepSeek, Claude, Cursor, Lottie, EAS, SQLite

UBS Global Coding Challenge   September 2024
- Emerged 1st place (Champions) out of 22 Teams in a Competitive Programming Contest
- **Tech Stack:** Python, Flask

Final Year Project: Time Series Forecasting   August 2024
- Machine Learning project to improve accuracy of time series predictions by investigating different methods for data ingestion and data preprocessing.
- **Tech Stack:** Python, Pytorch, TSFresh, Optuna, DeepAR Model

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