

Thiha Aung Set

Software Engineer · Product-Facing Full-Stack & Applied AI

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SKILLS

PRODUCT & DESIGN PROCESS

User Surveys & Interviews
Prototyping
Design Systems Figma

LANGUAGES & FRAMEWORKS

TypeScript
Node.js / Express React
Next.js Python FastAPI
React Native Tailwind
Three.js / WebGL

BACKEND, DATA & DELIVERY

PostgreSQL Supabase
Docker GitHub Actions
CI/CD REST APIs
Cloudflare Workers
Vercel Git

AI & MACHINE LEARNING

PyTorch CNNs ONNX
LLM-Assisted Coding

EDUCATION

B.Sc. Design & Artificial Intelligence

Singapore University of Technology & Design
Sep 2023 – May 2027

[SUTD Undergraduate Merit Scholar](#)

Diploma in Information Technology

Ngee Ann Polytechnic
Apr 2018 – May 2021

[Director's List \(Top 10%\)](#)

SUMMARY

Software engineer trained first in IT at Ngee Ann Polytechnic, then in studio, HCI and service design at SUTD. Built and run MidWhereAh, a live iOS and Android app, as its only developer, starting from a user survey. Built tools that FAMELINE's architects and an industry partner's reliability lab still use. Work daily in TypeScript/React and Python/FastAPI, using LLM coding tools and reviewing their output before it ships. **Graduating May 2027; available from June 2027.**

EXPERIENCE

Software Engineering Intern, [FAMELINE APSG](#)

Sep 2025 – Dec 2025

- Gathered requirements from the firm's architects, then designed and built **Luva**, a filter-based louver specification engine that matches **17 louver models** against live climate data. Architects doubted a tool could be trusted for real specs, so every result renders as a Three.js 3D preview before the PDF exports, in their existing format. Still in daily use ([luva.fameline-apsg.com](#)).
- Rebuilt the 30-year firm's corporate site from WordPress to a custom React/TypeScript stack supporting **15+** architectural projects with 3D interactivity.
- Added a serverless Cloudflare Workers backend with Turnstile bot protection to stop form spam. Deploys run through GitHub Actions CI/CD.

Automation Analyst Intern, [DBS Bank Ltd](#)

Mar 2020 – Jul 2020

- Built **15+** automation scripts for audit reconciliations in a regulated bank.

SELECTED PROJECTS

MidWhereAh — Fair Meeting-Point App

2026 – Present

- Sole developer of a consumer app **live on Google Play and the App Store**. A **38-response** survey and interviews showed that groups judge fairness by travel time, not distance. That shaped the engine, which caps the worst commute first and then ranks venues by equity, across **9,672 venues** and a **248-node** transit matrix built from LTA data, with OneMap for live routing.
- Found in a test run that transit routes put no cost on long walks: one sent a user on a 20-minute walk though a bus made the trip. Compared three fixes against journey-planner research and chose a per-user max-walk limit.
- Built and run the full stack: a React Native app, an Express/TypeScript API on Supabase (PostgreSQL) and a Next.js partner console, with **260** mobile and **478** API tests. Shipped **six** store releases solo. Won the **\$S2,000 SUTD Baby Shark Fund** grant and was nominated for Best Babyshark Project ([midwhereah.com](#)).

Predictive Maintenance Dashboard, [Industry Partner · SUTD](#)

2026

- Owned deployment and frontend: Dockerised Next.js 16 + FastAPI with a custom headless autoscheduler for scheduled and on-demand ML forecast runs, surfacing warnings to lab engineers; now running in the partner's reliability lab.

FaceFit — In-Browser Face-Shape Classifier, [SUTD Applied Deep Learning](#)

2026

- Built a 1.4M-parameter dual-branch CNN + geometry model that matches a fine-tuned ResNet-18 at 8× fewer parameters and runs fully in-browser via ONNX; lifted Round-class recall from 22.5% to 62.5% across iterations.