

Paing Thu Ta

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Bangkok, Thailand

SUMMARY

Software Engineer focused on system design and backend development, building real-time systems, secure auth infrastructure, and role-based platforms across the stack. Experienced with Node.js/Express, Next.js, .NET, PostgreSQL, Redis, and AWS in both startup and enterprise settings.

EXPERIENCE

Partner Associates International (PAI) | *Software Engineer Intern* Jun 2026 – Present

- **Tech Stack:** C#, .NET, Go, Angular, Keycloak, SQL Server (T-SQL), Docker
- Contributing to an enterprise-scale identity and access management migration, implementing WebAuthn/FIDO2 passwordless authentication with hardware security key support.
- Built custom authentication UI components in Angular, integrating with an enterprise identity provider to deliver role-aware login flows.
- Supported backend data migration efforts, including real-time data replication between systems using SQL Server.
- Researched compliance and hardware security module (HSM) requirements to strengthen the authentication pipeline for enterprise security standards.

IGCSE LanThit | *Freelance Full-Stack Developer* May 2026 – Aug 2026

- **Tech Stack:** Next.js 14 (App Router), TypeScript, React 18, Supabase (Auth + PostgreSQL), Tailwind CSS, Vercel, GitHub Actions CI/CD
- Built a role-based IGCSE self-study LMS with student, moderator, and admin portals, implementing Supabase SSR cookie-based authentication with role-based redirects and Row Level Security.
- Engineered an access code system with crypto-random generation and redemption flow, upgrading students to premium tier and wiring admin CRUD to Supabase Postgres.
- Deployed via GitHub Actions CI/CD to Vercel with production and preview branch pipelines.

Min Intelligence | *Backend Developer Intern* Sep 2025 – Nov 2025

- **Tech Stack:** Next.js, Prisma, PostgreSQL, NextAuth
- Architected an internal scheduling portal using Next.js, Prisma, and PostgreSQL, supporting 25 active users.
- Eliminated scheduling conflicts by engineering an automated availability algorithm, and enforced secure, role-based access control via NextAuth.

EDUCATION

Assumption University of Thailand Nov 2022 – Mar 2026

Bachelor of Science (BSc) – Computer Science

Bangkok

- Concentration: Software Engineering and Development

PROJECTS

Huntopia | *Gamified campus exploration app with QR achievements* Jan 2026 – Mar 2026

- **Tech Stack:** Kotlin, Android SDK, AndroidX (Fragments, RecyclerView), Material Components, Firebase (Auth, Firestore)
- Developed a gamified Android exploration app using Kotlin, implementing QR-based achievements and real-time progress tracking.
- Optimized UI rendering and reduced memory overhead by 30 MB by implementing single-activity multi-fragment navigation and custom RecyclerViews, achieving a consistent 60 FPS scroll performance.
- Persisted user accounts and user-scoped unlock/progress data for ~5–15 testers using Firebase Auth + Firestore.

Fit-Lab | *Role-based fitness course platform (Member/Trainer/Admin portals)*

Dec 2025 – Feb 2026

- **Tech Stack:** React + Vite, Tailwind CSS, React Router, Zustand; Node.js + Express, PostgreSQL, JWT auth, ESLint
- Engineered a full-stack fitness platform supporting 3 distinct role-based portals (Member, Trainer, Admin), reducing manual trainer onboarding time by 80% and facilitating seamless course enrollment for 25 active test users.
- Designed a scalable PostgreSQL schema supporting 500+ concurrent transactions and developed secure REST APIs with JWT, eliminating unauthorized data access and accelerating API response times by 450ms through optimized query indexing.

AU Journey | *Senior Project 2: iOS app for real-time tram tracking*

Jul 2025 – Oct 2025

- **Tech Stack:** Swift (UIKit), Node.js/Express, Redis, Three.js, Raspberry Pi, Neo-6M
- Deployed a real-time tram tracking iOS app achieving ~2s live updates, resulting in 72 App Store downloads during launch.
- Increased tracking stability by caching GPS telemetry in Redis and broadcasting via pub/sub, implementing path prediction to mitigate signal dropouts.
- Architected an end-to-end backend data pipeline integrating Raspberry Pi, Node.js/Express APIs, and an iOS client for live location ingestion.

SKILLS

Languages: JavaScript, TypeScript, C#, Python, Go, Swift, Kotlin

Frontend: React, Vue.js, Angular, Next.js, Redux, HTML/CSS, Tailwind CSS, SPA

Backend: .NET, Node.js, Express, REST APIs, Authentication (JWT, OAuth/OIDC, WebAuthn/FIDO2, Keycloak, NextAuth), Redis, Flask, FastAPI

Databases/ORM: PostgreSQL, SQL Server (T-SQL, CDC), MySQL, MongoDB, Firebase, Prisma

Cloud/DevOps/Tools: AWS, Docker, Git, GitHub Actions (CI/CD), Jenkins, Unit Testing

AWARDS

Runner Up – Alibaba Cloud x AGICAFET Hackathon 2026 : Built OutfitMaxxing, an AI stylist app where users upload an outfit photo and receive three complete styled looks generated by AI.

Outstanding Senior Project Award 2025 : For unique innovation and valuable contributions to the university community.

CERTIFICATES

AWS Academy Graduate – Cloud Operations

Introduction to Containers with Docker, Kubernetes, and OpenShift (IBM)