

Kaung Hset Hein

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Education

Bachelor of Science in Computer Science

2023 - 2027

King Mongkut's University of Technology, Thonburi (KMUTT), Thailand

- Current GPAX: 3.88 / 4.0
- Multi-intellectual Scholarship Winner

Experience

Freelance Developer

2024 - Present

Self-Employed, Remote

- Designed and developed full-stack web applications with scalable backend architectures and RESTful API design
- Implemented backend services with authentication, role-based access control, and relational database schemas
- Built and integrated APIs supporting core business workflows, including CRUD, validation, and error handling
- Deployed production-ready applications using Docker and GitHub Actions with automated CI/CD pipelines

Student Researcher

Mar 2025 - Feb 2026

Deep Learning Research Lab, KMUTT, Remote

- Developed and optimized computer vision pipelines for real-world datasets using deep learning models
- Improved model performance through data augmentation, transfer learning, and systematic experimentation
- Collaborated with cross-functional teams to document technical findings and system behavior

Selected Projects

GodView AI

FastAPI, Python, YOLO, Supabase, PostgreSQL, Telegram Bot API

- Hackathon winning prototype for a real-time clinical monitoring system detecting patient anomalies.
- Designed a modular FastAPI backend using service-oriented architecture for clear separation of concerns.
- Built a high-performance inference pipeline with YOLO, optimized for low-latency processing.
- Implemented role-based access control (RBAC) and integrated Telegram Bot API for real-time emergency alerts.

CampusLink (Link)

Node.js, Express, React, PostgreSQL, Tailwind CSS, MVC

- Built a full-stack university management system with RESTful APIs and structured backend architecture.
- Applied system design principles to separate application layers for scalability and maintainability.
- Implemented authentication and role-based access control for secure user management.
- Designed relational database schemas in PostgreSQL for efficient data handling.

Bug Gym (Link)

Java 21, JavaFX, RichTextFX, Maven, CommonMark, jpackage, GitHub Actions

- Engineered an open-source (GPLv3) Java training suite adopted by 30+ SIT students to bridge the gap between text editors and complex IDEs during exam prep.
- Architected a decoupled Markdown-driven content system and implemented an offline-first persistence layer for private, local progress tracking.
- Developed a sub-second in-memory compilation engine, featuring character-level diffing for automated test validation.
- Automated a multi-platform CI/CD pipeline via GitHub Actions to distribute native installers (.msi, .dmg, .deb).

SIT Compendium (Link)

Next.js, TypeScript, React, Docker, Tailwind CSS, KaTeX

- Architected a schema-driven course knowledge platform using Next.js App Router for optimal SSR performance.
- Built a content pipeline converting LaTeX documents into structured, type-safe JSON.
- Implemented mathematical rendering with KaTeX and deployed via a Docker-based CI/CD pipeline.

Achievements

International AI Hackathon 2025 – Winner – School of Information Technology (SIT)

2025

CSC302 Talkathon 2025 – Winner – School of Information Technology (SIT)

2025

The Hackathon 2019 – 1st Runner-up – Ooredoo and UNDP

2019

Technical Skills

Programming Languages:	Python, Java, JavaScript, TypeScript, Dart, SQL
Backend:	Node.js, Express, FastAPI, RESTful APIs, GraphQL
Databases & ORM:	MySQL, SQLite, PostgreSQL, MongoDB, Prisma, Firestore
Frontend & Mobile:	React, Redux, Next.js, Flutter, Tailwind CSS, Responsive Design
DevOps & Cloud:	Git & GitHub, Docker, Vercel, Firebase, Supabase, Railway

Certifications

Python for Everybody Specialization (Specialization) – University of Michigan

Career Essentials in Software Development – Microsoft & LinkedIn