

# 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

- **Student Mentor** Sep 2024 - Present  
School of Information Technology, KMUTT, Part-time  
Led weekly Java programming sessions for 20+ students covering data structures, algorithms, and OO design  
Mentored students on debugging strategies, clean code practices, and SOLID principles  
Collaborated in agile academic environment with iterative feedback cycles and continuous improvement
- **Freelance Developer** 2024 - Present  
Self-Employed, Remote  
Developed full-stack web applications with responsive design and user-friendly interfaces  
Designed and integrated backend services and databases, supporting authentication and CRUD workflows  
Deployed production systems with Docker, GitHub Actions, and automated CI/CD pipelines

## Selected Projects

- **Bug Gym** *Java 21, JavaFX, RichTextFX, Maven, CommonMark, jpackage, GitHub Actions*  
Built a FOSS cross-platform native desktop application with JavaFX 21 and **jpackage**  
Implemented a RichTextFX-based code editor with Java syntax highlighting and auto-indentation  
Developed a Markdown-driven problem system and automated test engine with instant feedback  
Set up GitHub Actions CI/CD to generate multi-platform installers with offline-first persistence
- **SIT Compendium** *Next.js, TypeScript, React, Docker, Tailwind CSS, KaTeX*  
Structured academic knowledge platform for organizing university course content and mathematical notation  
Architected a schema-driven content system with Json content converted from latex source  
Built RESTful APIs and server-side rendering with Next.js App Router for optimal performance  
Implemented KaTeX integration for mathematical notation with edge-case handling  
Deployed with Docker containerization and CI/CD pipeline on Vercel
- **GodView AI** *FastAPI, Python, YOLOv8, Supabase, PostgreSQL, Telegram Bot API*  
AI-powered real-time monitoring system using computer vision to detect patient anomalies in clinical environments  
Designed modular FastAPI backend with service-oriented architecture and clean separation of concerns  
Built real-time inference pipeline using YOLOv8 with optimized low-latency processing  
Implemented role-based access control (doctor, nurse, admin) with Supabase authentication  
Integrated Telegram Bot API for real-time alerts with defensive error handling and logging
- **Libro Tracker** *Flutter, Dart, Firebase, Firestore, Riverpod, GoRouter, MVVM*  
A cross-platform mobile application to track reading activity and personal libraries  
Implemented MVVM architecture with clean separation of UI, business logic, and data layers  
Built ISBN lookup and reading analytics with Riverpod state management  
Integrated Firebase Authentication and Firestore for real-time multi-device sync  
Structured navigation with GoRouter for deep linking support

## 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

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

Additional projects, experience, and certifications are available on my portfolio website.

Updated: January 26, 2026