

# POONYAWAT KHOMLEK

## SUMMARY

I'm software Engineering student and focus on backend development, currently I'm learning about various framework to increase efficiency API for the website and mobile application.

## EDUCATION

### MAE FAH LUANG UNIVERSITY

**Bachelor of Engineering:** 4rd Year

**Software Engineering:** Expected Graduation: 2026

## SKILL

### Programming Language

- Java
- Go
- JavaScript
- TypeScript

### Frontend frameworks


- NextJs
- ReactJs
- NuxtJs
- VueJs
- React Native Expo


### Backend frameworks

- Spring-Boot
- Go Fiber
- Nest js

### Database & tools

- MongoDB
- Kafka
- PostgreSQL
- Docker
- My SQL
- Camunda BPMN
- SQLite
- Google cloud console

 [Poonyawat Khomlek](#)

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 [github/poonyawat0511](https://github.com/poonyawat0511)

## WORK EXPERIENCE

### HLLC – 2024 On campus [Backend Developer](#)

Developed and implemented core backend services for HLLC, an activity tracker for freshmen at Mae Fah Luang University, enhancing engagement and participation.

#### Key Contribution:

- Designed and integrated Socket.io with NestJS for real-time community chat.
- Developed CRUD APIs and managed MongoDB for efficient data handling.
- Implemented RBAC security for user authentication and permissions.
- Built features like activity check-ins, gamification, notifications, and admin reporting.

**Stacks:** • NestJs • NuxtJs • MongoDB • Socket io

 <https://github.com/jemiezler/hllc-2024>

### HLLC – 2025 On campus [Full-Stack Developer](#)

Developed and implemented core backend services for HLLC, an activity tracker for freshmen at Mae Fah Luang University, enhancing engagement and participation.

#### Key Contribution:

- Designed and integrated WebSocket with Go fiber for real-time community chat.
- Developed CRUD APIs and managed MongoDB for efficient data handling.
- Parallel to the mobile application, a student website was implemented.
- Built features like activity check-ins, permission, and admin management system.

**Stacks:** • NestJs • NextJs • MongoDB • Go fiber

 <https://github.com/HLLC-MFU/HLLC-2025>

## PROJECT EXPERIENCE

### MaeChan project [Full-Stack Developer](#)

The MaeChan Project is a Senior Project for third-year Software Engineering students at MFU (Mae Fah Luang University). This project is developed by a team of four students, and I am responsible as both the Full-Stack Developer and Project Manager.

#### Key Contribution:

- Project Management: Led a team of four, managed development sprints, defined system architecture, and coordinated with MaeChan Hospital.
- Backend: Built Spring Boot APIs, integrated Camunda BPMN, and implemented Kafka & Debezium for real-time data streaming.
- Frontend: Developed a Next.js UI (Hero UI) and integrated LINE notifications for purchase request updates.
- Database & Deployment: Designed PostgreSQL schema and deployed the system using Docker for scalability.

**Stacks:** • Docker • Camunda • Debezium • Hero UI  
• Kafka • Spring-Boot • Next.js

 <https://github.com/poonyawat0511/MaeChan-Project>


### Platform Development [Full-Stack Developer](#)

The Smart Library module in the MFU Super App modernizes library management by providing a mobile app for users to borrow and reserve books and an admin web app for managing users, books, and transactions.

#### Key Contribution:

- API Development (NestJS + MongoDB) – JWT authentication, RESTful APIs, and transaction handling
- Admin Web App (Next.js) – User & book management, role-based access control
- Mobile App (React Native + Expo) – Book borrowing, reservations, and transaction history
- Security & Integration – JWT with HTTP-only cookies, CORS policies, and request validation

**Stacks:** • Nest.js • Next.js • MongoDB • React Native with Expo

 <https://github.com/poonyawat0511/PlatformDev-SuperApp-MFU-Library>