

THNAWAT GULATI

Software Engineer · Bangkok, Thailand

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WORK EXPERIENCE

Purple Ventures Co., Ltd. (Robinhood)

Oct 2025 – Present

Software Engineer

- Led the migration of the Job Allocation engine from Java to Go, significantly reducing infrastructure costs and improving concurrent request handling and system throughput.
- Built scalable rider-platform services in Java (Spring Boot) and Go (Clean Architecture), using Kafka/SQS for event-driven workflows, PostgreSQL/MongoDB/Redis for data handling, and AWS (API Gateway, AppSync, Batch, S3) to support high-throughput, low-latency delivery operations.
- Contributed to building the new Express delivery service, including real-time support chat between riders and consumers.
- Built an Express Pricing Management web app (Next.js) with a Spring Boot backend for bulk Excel uploads and validation, keeping pricing data accurate and consistent.
- Developed a real-time Rider Map and Dynamic Heatmap using polygon-based geospatial data, helping operations rebalance fleet distribution across high-demand zones.
- Built a Virtual Rider dashboard (Next.js) that lets Customer Service resolve delivery exceptions and reassign riders, reducing failed deliveries.
- Automated Proof-of-Delivery image delivery to customers, improving transparency and reducing dispute resolution time.

Dek-D Interactive Co., Ltd.

May 2021 – Jul 2025

Backend Developer (Internship, Part-time, and Full-time)

- Migrated the Mail, Report, and Notification services from Node.js to Go.
- Upgraded Elasticsearch from v1.7 to v8.0.1 and refactored the existing queries.
- Developed the Core API for the Novel Platform using PHP, Go, TypeScript, and GraphQL, backed by MariaDB, PostgreSQL, MongoDB, RabbitMQ, Elasticsearch, Redis, and Memcached.
- Built a URL shortener service (Go, Redis, MongoDB) with Prometheus click analytics.
- Implemented encrypted file storage on Huawei OBS and backend storage APIs for the Webtoon Platform, handling large comic image files.
- Implemented QR code-based login using PHP, Redis, and MongoDB.

TECHNICAL SKILLS

Languages	Go, Java, TypeScript, PHP, SQL
Frameworks	Spring Boot, Next.js, Node.js, GraphQL
Databases & Messaging	PostgreSQL, MariaDB, MongoDB, Redis, Memcached, Elasticsearch, Kafka, AWS SQS, RabbitMQ
Cloud & DevOps	AWS (API Gateway, AppSync, Batch, S3), Kubernetes, Prometheus, Huawei OBS, Git
Architecture	Clean Architecture, Microservices, Event-Driven Architecture
Spoken Languages	Thai (Native), English (Intermediate)

EDUCATION

King Mongkut's University of Technology North Bangkok, Thailand

2018 – 2022

B.Sc. in Computer and Information Science

CERTIFICATIONS

Ruby on Rails — The Pragmatic Studio	Mar 2025
Software Architecture Design — Skooldio	Sep 2024
DevSecOps Prime — Skooldio	Sep 2024
Spring Boot for Beginners — Amigoscode	Aug 2024
Microservices Design Patterns — Skooldio	Sep 2022
Scala Fundamentals — Skooldio	Sep 2022
Golang Bundle Course — Skooldio	Feb 2022
Automation & Scalable Technology using Golang and Kubernetes (Online Workshop)	Mar 2021

ACTIVITIES & ACHIEVEMENTS

Google Developer Student Clubs Lead	Jun 2020 – Aug 2021
Microsoft Learn Student Ambassador	Jul 2020 – Aug 2021
Young Webmaster Camp 18	Aug 2021