

NITHIWUT WILAINUCH

Senior Software Engineer / Squad Lead

Bangkok, Thailand

nithiwut.w@gmail.com — 088-607-9220

LinkedIn: [linkedin.com/in/nithiwut-wilainuch-a90152179](https://www.linkedin.com/in/nithiwut-wilainuch-a90152179) — Portfolio: nithiwut.com

Professional Summary

Senior Software Engineer with 5+ years of experience building scalable backend and cloud-native systems across banking and startup environments. Experienced in marketplace platform development, asynchronous workflows, event-driven architectures, AI-powered system integrations, and production infrastructure on AWS and Kubernetes. Strong background in backend platform reliability, distributed processing, CI/CD automation, and cross-functional engineering collaboration.

Technical Skills

Languages: Java (11–21), Python, TypeScript

Backend & Frameworks: Spring Boot, Django, Node.js

Cloud & DevOps: AWS (Lambda, API Gateway, S3, SQS, Aurora), Docker, Jenkins, GitLab CI/CD, Kubernetes

Databases & Search: MySQL, PostgreSQL, Redis, Elasticsearch

Frontend: React, Next.js

Professional Experience

Senior Software Engineer

ttb bank — Bangkok

Apr 2023 – Present

- Developed backend services for Roddonjai, a customer-facing used-car marketplace platform, supporting public vehicle listing, browsing, seller operations, and internal administration workflows.
- Designed and implemented seller onboarding and vehicle inspection workflows, including seller information submission, verification processes, inspection status handling, and publication readiness checks.
- Built and maintained RESTful APIs supporting car listings, seller-related operations, inspection workflows, campaign configuration, and platform content management.
- Collaborated with AI engineering teams to integrate AI-powered workflows into the marketplace platform, including OCR-based vehicle registration data extraction, vehicle image categorization, intelligent search enhancements, and AI-assisted vehicle recommendation features.
- Designed and integrated event-driven image processing workflows using AWS Lambda and S3 triggers for automatic vehicle image resizing and WebP optimization.
- Improved marketplace search performance and user experience using Redis caching and Elasticsearch indexing.
- Designed asynchronous workflow integrations using AWS SQS for background processing, workflow orchestration, and scalable task handling.
- Supported production services running in Kubernetes environments, including deployment troubleshooting, monitoring, incident investigation, and operational reliability improvements.
- Investigated production issues, identified root causes, and applied fixes to improve system stability, reliability, and operational readiness.

- Worked with CI/CD pipelines and deployment processes to release changes across multiple environments.
- Coordinated with business, operations, and cross-functional engineering teams to clarify requirements, support campaign operations, and deliver platform enhancements.

Software Engineer

Purple Ventures Company Limited — Bangkok

May 2021 – Mar 2023

- Developed backend services using Java, Python, and AWS Serverless technologies for production systems.
- Delivered multiple backend features across several production software releases in a startup environment.
- Migrated deployment workflows from manual zip-based deployment to automated CI/CD pipelines, improving release consistency and deployment efficiency.
- Containerized services using Docker and integrated deployment workflows with Jenkins pipelines.
- Developed internal promotion code verification services used by call center teams.
- Collaborated with data teams to build reporting services and automated email reporting workflows.
- Supported production systems and worked with cross-functional teams to investigate and resolve operational issues.

Backend Developer

Institute of Public Policy and Development — Bangkok

Jun 2020 – Apr 2021

- Developed backend services using Django and PostgreSQL.
- Built frontend components using React and Next.js based on UI/UX designs.
- Worked on ETL-related tasks and maintained data pipelines.
- Coordinated with team members to ensure data accuracy, system stability, and reliable delivery.

Leadership and Team Contribution

- Contributed to backend technical leadership within the squad, including architecture discussions, production issue resolution, code reviews, and engineering delivery coordination.
- Reviewed code and provided feedback to improve code quality, maintainability, and engineering consistency.
- Helped onboard new team members by explaining system architecture, development workflows, project setup, and operational practices.
- Collaborated with business, operations, and engineering teams to clarify requirements, align delivery expectations, and support reliable platform operations.

Education

Bachelor of Engineering (Computer Engineering)

Chulalongkorn University — Bangkok

Senior Project: License Plate Recognition Using Deep Learning

- Developed a license plate recognition pipeline using YOLO transfer learning, Python, and Keras.
- Prepared and labeled image datasets for license plate detection model training.
- Deployed the service on Google Cloud Run using container-based deployment.