

Dong Nguyen

Senior Software Engineer

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EXPERIENCE

Senior Software Engineer

2021 – Present

Current Company

Ho Chi Minh City, Vietnam

- System ownership and architecture design for logistics integration systems
- Developed IoT-DWS integration solution deployed across 16 sortations
- Led system maintenance and modernization for production environments
- Applied Computer Vision and ML to solve real-world operational problems
- Scrum Master responsibilities — team achieved Scrum Level L3

IoT-DWS Integration System

Took over and rapidly mastered the IoT-DWS system after the previous responsible team member left the project.

- HTTP integration with Signature Header
- HMAC-based request/response security
- RocketMQ integration
- HTTP engine development
- Integration with DWS machines

Java HTTP HMAC RocketMQ DWS

DWS integration solution deployed across 16 sortations

16 sortations deployed

AWB Detection / Computer Vision

Automatically detect shipping labels / AWB from images captured by cameras on sortation machines.

- OpenCV image preprocessing
- YOLO-based object detection
- Oriented Bounding Box (OBB)
- ONNX model inference
- OCR pipeline

Python OpenCV YOLO ONNX OCR

Model fine-tuned for AWB detection, handling white label on white package

70,000 images/month processed

System Maintenance & Optimization

Maintained and modernized production systems per security/infrastructure team requirements.

- Migration to newer middleware versions
- OSS cleanup and duplicate image removal
- System maintenance automation

Docker Linux OSS CI/CD

Reduced OSS storage by approximately 7 GB/month

7 GB/month reduction, 70,000 images/month

SKILLS

Software Engineering

Java · Go · TypeScript · Distributed Systems · REST APIs · Microservices

Logistics Technology

Sortation · Warehouse / Facility Operations · Package Flow · Operational Intelligence · Facility Modeling

Infrastructure

Docker · Linux · CI/CD · Networking · Middleware

System Architecture

System Design · Integration Architecture · Event-driven Architecture · Message Queues · API Design

AI / ML

Computer Vision · Object Detection · OCR · Model Deployment · LLM · AI-assisted Engineering

Engineering Practices

Agile / Scrum · Technical Documentation · System Maintenance · Performance Optimization · Technical Research

PROJECTS

IoT-DWS Integration System

Senior Software Engineer — System Owner

Designed and deployed an integration system between IoT devices and DWS (Dimensioning Weighing Scanning) machines across 16 sortations.

Java HTTP HMAC RocketMQ DWS

16 sortations deployed

AWB Detection / Computer Vision

Senior Software Engineer — ML Engineering

Applied Computer Vision and Machine Learning to automatically detect and OCR shipping labels from camera images on sortation lines.

Python OpenCV YOLO ONNX OCR

70,000 images/month processed

Facility Management Platform

Senior Software Engineer — Platform Design

Built a digital twin platform for logistics facilities — facility modeling, real-time monitoring, and recommendation system.

Go TypeScript Docker Event-driven

Local LLM Experiments

Engineering Experiment

Technical exploration of running local MoE LLMs with llama.cpp — GPU offloading, VRAM optimization, performance tracing.

llama.cpp Qwen MoE Python CUDA