



Nguyen Manh Hung

Software Engineer

With 2+ years of experience in enterprise Java and backend engineering, Integrating AI into scalable systems. ICPC medalist, currently developing large-scale Fixed Network Management Systems at work.

✉ CONTACT

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🎓 EDUCATION

BACHELOR DEGREE

FPT University HCMC

Information Technology

2020 - 2024 • GPA 8.0/10

GIFTED PROGRAM

Nguyen Du High School for Gift

Informatics

2017 - 2020

🛠 SKILLS

BACKEND

- Java & Spring Boot
- C# & ASP.NET Core
- RESTful API Design
- Maven & Microservices

TESTING & CI/CD

- Robot Framework
- JUnit & Integration Tests
- Jenkins Pipelines
- GitHub Actions

FRONTEND

- Angular & React.js
- TypeScript
- Flutter Mobile
- TailwindCSS

DEVOPS & TOOLS

- Kubernetes & Docker
- PostgreSQL & Redis

▣ EXPERIENCE

● SOFTWARE ENGINEER - FNMS TEAM

Apr 2024 - Present

Nokia | Ho Chi Minh City

Developed Fixed Network Management System (FNMS) for optical network device management using enterprise Java technologies. Led implementation of device software upgrade campaigns and automated testing infrastructure.

- Built comprehensive REST API endpoints for software campaign management using Spring Boot microservices with proper error handling, logging, and validation
- Implemented device software upgrade features with retry mechanisms and timeout handling for NT/LT board reachability verification across distributed network infrastructure
- Automated testing workflows using Robot Framework achieving 200+ test cases with 85% code coverage, reducing manual testing effort by 70%
- Optimized Jenkins CI/CD pipelines reducing build time by 30% through Maven caching strategies and parallel execution across multiple test suites
- Integrated XGBoost ML model with n8n workflows for automated test failure pattern detection and root cause analysis
- Collaborated with cross-functional teams using Agile methodologies, participating in sprint planning, daily standups, and code reviews

Tech Stack: Java, Spring Boot, Angular, Robot Framework, Maven, Kubernetes, Jenkins, PostgreSQL

● SOFTWARE ENGINEER - ALOKA TEAM

Aug 2023 - Apr 2024

FPT Software | Ho Chi Minh City

Developed medical imaging software for ultrasound analysis focusing on vascular measurement tools and performance optimization.

- Implemented measurement and annotation features for blood flow analysis, vessel sizing, and wall thickness detection in medical imaging applications
- Optimized application performance by offloading heavy I/O operations from UI thread, reducing startup time by 40% and improving responsiveness
- Restructured API response formats to meet specific client requirements, ensuring efficient data delivery and seamless frontend integration

Tech Stack: C++, C#, WPF, ASP.NET Core

🔗 SELECTED PROJECTS

● Huynh Hanh Financial Management

Aug 2024 - Feb 2025

- Full-stack agricultural operations platform with AI chatbot integration using PhoBERT for Vietnamese NLP
- Built real-time truck weighing system with Web Serial API, data storage, receipt printing, and report export
- Developed crop lifecycle management with 3D GPS visualization for planting area tracking

ASP.NET Core, React.js, Electron.js, Material UI, Docker

● SmartMicro IoT Platform

Feb 2024 - Apr 2024

- Git & Version Control
- Kong API Gateway
- Mobile IoT platform for smart home device management with voice control capabilities
- Connected BLE devices via GATT/UART protocols for real-time device control
- Integrated OpenAI API with Flutter TTS for voice-activated home automation

ALGORITHMS

Flutter, GetX, ASP.NET Core, SignalR, OpenAI API

- Competitive Programming
- Dynamic Programming
- Graph Theory
- Data Structures

AWARDS

- **ICPC 2023** - Third Prize
Vietnam Southern Region
- **Meta Hacker Cup 2024**
Round 2 - Top 12% Global
- **ICPC 2021** - Honorable Mention
Vietnam National
- **National High School 2020**
Informatics - Honorable Mention

Portfolio: jine.blog • Updated December 2024