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.

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🎓 EDUCATION

• Bachelor of IT
FPT University, HCMC
2020 - 2024 • GPA 3.2/4.0

• High School for the Gifted
Nguyen Du High School (Informatics)
2017 - 2020

🎖 AWARDS

• ICPC 2023 - Third Prize
Vietnam Southern Region
• Meta Hacker Cup 2025
Round 2 - Top 12% Global
• ICPC 2021 - Honorable Mention
Vietnam National
• National High School 2020
Informatics - Honorable Mention

⚙ SKILLS

BACKEND
• Java & Spring Boot
• Maven & Microservices

ALGORITHMS
• Competitive Programming
• Dynamic Programming
• Graph Theory
• Data Structures

DEVOPS
• AWS Cloud Services (EC2, S3)
• Kubernetes & Docker
• PostgreSQL & Redis
• Robot Framework
• Jenkins Pipelines

FRONTEND
• Flutter Mobile
• Angular & React.js
• TypeScript

💼 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

👤 PROJECTS

Huynh Hanh Financial Management
Aug 2024 - Feb 2025

→ huynhhanh.com

• Full-stack agricultural platform with AI chatbot integration using PhoBERT for Vietnamese NLP
• Built real-time truck weighing system with Web Serial API, 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

• 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

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