



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.



EXPERIENCE

- ✉ nmhung.works@gmail.com
- 📍 Ho Chi Minh City, Vietnam
- 📞 +84 947 339 718
- 💻 github.com/jinergenkai

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