

Huynh Minh Khang

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Honors and Awards

- Bronze medal in Group A of the National Student Mathematical Olympiad (13/4/2024).
- Top 5 student in Engineering Field in FPTU (Spring 2024 and Fall 2024)
- Consolation prize in The 2025 ICPC Vietnam National Programming Contest.
- Top 50 in The 2025 ICPC Asia Ho Chi Minh City Regional Contest.

Skills

• Programming:

- **Languages:** Rust, Go, Java, C#, Python, C, C++, Lua, Ocaml, Haskell, Assembly, Javascript, Typescript
- **Frameworks:** Spring, Axum, ReactJS, NextJS, React Native, Tauri, WinUI 3, WPF
- **Tools:** Git, Vim, Linux, Docker, Docker Compose, Kubernetes, Grafana
- **Domains:** Backend, Frontend, DevOps, Embedded Systems, Mobile, Desktop, AI, Cryptography
- **Math:** Calculus (I, II, III), Real Analysis, Complex Analysis, Discrete Math, Linear Algebra, Number Theory
- **Soft skills:** Problem-Solving, Teamwork
- **Foreign language skill:** English (Intermediate, IELTS 7.0)

Projects

R.ODE Battle

6/2024 – Now

- Competitive programming platform
- Repositories:
 - github.com/f-code-club/rode-be-socket-f-code.tech
 - github.com/f-code-club/judge-runner
- Position: Team Lead, Backend Developer.
- Technologies: Axum (Rust), AWS S3, Docker.

Blood Donation System

Jun 2024 – Now

- Open-source platform connecting donors, recipients, and hospitals to optimize blood supply
- Repository: github.com/swp391-group-3/blood-donation-system
- Technologies: Axum (Rust), Redis, Qdrant, RAG AI, NextJS, Tailwind CSS, Docker.

Smart Trash Bin

Jan 2025 – Mar 2025

- Embedded system for trash bin
- Repositories:
 - github.com/akagiyuu/smart-trash-bin
 - github.com/iot102-group5/smart-trash-bin
- Positions: Team Lead, Full Stack Developer, Embedded Developer
- Technologies: Arduino, ReactJS, Tailwind CSS, Tauri (Rust), Docker.

Health Care System

Nov 2023 – Dec 2023

- Embedded system for health tracking with heart rate and SPO2 levels
- Repository: github.com/akagiyuu/health-care
- Technologies: Arduino, React Native

Classic Machine Learning Algorithms

Sep 2024 – Now

- Various classic ML algorithms (linear/logistic regression, SVM, clustering) implemented from scratch
- Repository: github.com/akagiyuu/machine-learning
- Technology: Rust

MobileNet-V2 Model

Dec 2024 – Jan 2025

- MobileNet-V2 image classification model
- Repository: github.com/akagiyuu/mobilenet-v2
- Technology: Burn (Rust)

Gourd crab fish tiger game

6/2024 – Now

- Gourd crab fish tiger game using Solana's platform as payment method
- Repository: github.com/F-Casino
- Technology: Leptos (Rust) + WASM, Axum (Rust), Solana SDK

Education

FPT University - HCMC Campus**Thu Duc, Ho Chi Minh City**

Software Engineering

8/2023 – Now