

# Huynh Minh Khang

✉ [khanghuynh0245@gmail.com](mailto:khanghuynh0245@gmail.com)

☎ 033 7676 245

🐙 [github.com/akagiyuu](https://github.com/akagiyuu)

🏆 [codeforces.com/profile/AkagiYuu](https://codeforces.com/profile/AkagiYuu)

## Honors & Awards

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- Group A Bronze Medal in National Student Mathematical Olympiad (Apr 2024)
- ICPC National Contest Participant (Nov 2024)
- Top 5 Field Of Engineering in FPTU (Spring 2024 and Fall 2024)

## Skills

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- **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:** Time Management, Problem-Solving, Leadership, Teamwork
- **Foreign language skill:** English (Intermediate, IELTS 7.0)

## Projects

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### 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](https://github.com/swp391-group-3/blood-donation-system)
- Positions: Team Lead, Full Stack Developer
- Technologies: Axum (Rust), Redis, Qdrant, Retrieval-Augmented Generation, NextJS, Tailwind CSS, Docker, Github Action

### R.ODE Battle BE

Jun 2024 – Now

- Designed a scalable real-time scoring and collaborative editor API for coding competitions
- Repository: [github.com/F-Code-Club/rode-be-socket-f-code.tech](https://github.com/F-Code-Club/rode-be-socket-f-code.tech)
- Positions: Sub Lead, Backend Developer
- Technologies: Axum (Rust), AWS S3, Docker, Github Action

### Virtual Book Archive

Jan 2025 – Mar 2025

- Developed an online library
- Repository: [github.com/akagiyuu/virtual-book-archive](https://github.com/akagiyuu/virtual-book-archive)
- Positions: Team Lead, Full Stack Developer
- Technologies: Spring (Java), ReactJS, Tailwind CSS, Docker

### Smart Trash Bin

Jan 2025 – Mar 2025

- Created an IoT system for automated lid control and real-time fill-level monitoring
- Repositories:
  - [github.com/akagiyuu/smart-trash-bin](https://github.com/akagiyuu/smart-trash-bin)
  - [github.com/iot102-group5/smart-trash-bin](https://github.com/iot102-group5/smart-trash-bin)
- Positions: Team Lead, Full Stack Developer, Embedded Developer
- Technologies: Arduino, ReactJS, Tailwind CSS, Tauri (Rust), Docker, Github Action

### Notepad Pro

May 2022 – June 2022

- Developed a multi-tab rich-text editor with custom formatting tools
- Repository: [github.com/akagiyuu/Notepad](https://github.com/akagiyuu/Notepad)
- Technology: WinUI 3 (C#)

### Health Care System

Nov 2023 – Dec 2023

- Built a wearable device interface tracking heart rate and SpO2 levels
- Repository: [github.com/akagiyuu/health-care](https://github.com/akagiyuu/health-care)
- Technologies: Arduino, React Native

### Classic Machine-Learning Algorithms

Sep 2024 – Now

- Implemented various classic ML algorithms (linear/logistic regression, SVM, clustering) from scratch
- Repository: [github.com/akagiyuu/machine-learning](https://github.com/akagiyuu/machine-learning)
- Technology: Rust

### Deep-Learning – MobileNet-V2 Model

Dec 2024 – Jan 2025

- Designed and trained a MobileNet-V2 image classification model
- Repository: [github.com/akagiyuu/mobilenet-v2](https://github.com/akagiyuu/mobilenet-v2)
- Technology: Burn (Rust)

## Education

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FPT University - HCMC Campus

Software Engineering

Thu Duc, Ho Chi Minh City

Aug 2023 – Now