

# TRAN QUOC HUY

Software developer

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Github: [tranquochuy645](https://github.com/tranquochuy645) | Portfolio: [tranquochuy645.github.io](https://tranquochuy645.github.io)

## SUMMARY

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Passionate about programming, I aim to build a career as a software engineer and invest a significant amount of time in building educational projects.

Additionally, my college major in Embedded systems and IoT provides a strong foundation in network and hardware, enhancing my technical expertise.

## SKILLS

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### Good command of:

- TypeScript, JavaScript, Java, C++, C, C#, Python, Bash.
- Linux OS, SSH, system daemon, cron-job, proxy, firewall, virtualization.
- Git, Github Actions, Nginx, Postman, Docker.
- REST API, Websocket, HTTP long-polling, WebRTC, Server-sent Events, Webhooks.
- NodeJS, Express, Socket-io, Jsonwebtoken, Multer, Bcrypt, Dotenv, Npm.
- ReactJS, Vite, HTML, CSS, SEO, BEM, flexbox, responsive layout, animation, code bundling, lazy loading, browser fetch.
- MongoDB, Firebase, MySQL.

### Basic understanding of:

- AWS, Kubernetes CI/CD.
- Cyber-security, network administration.
- GraphQL, Redis.

### Side knowledge/hobbies:

- Android (Java), Flutter mobile.
- ESP-IDF, Arduino.
- Unity3D, Blender.

### Communication:

- Vietnamese (native).
- English (fluent).

## EDUCATIONAL PROJECTS

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### My portfolio (individual project)

- Technologies: ReactJS.
- Highlights:
  - ✓ Attained an outstanding Lighthouse score of 99 (Performance: 97, Accessibility: 100, Best Practices: 100, SEO: 100).
  - ✓ Responsive design with mobile scaling.
  - ✓ Automated deployment (Github Actions, Github Pages).
- Open-source code: [link](#)
- Demo: [link](#)

### **Video meeting and messaging web app**

- Technologies: NodeJS, ReactJS, ExpressJS, Socket.io, WebRTC, MongoDB, AWS (EC2, S3).
- My role: Fullstack ( Team: 1 Fullstack, 1 Front-end).
- Highlights:
  - ✓ Direct or group messaging and video call.
  - ✓ Complete CRUD operations for data management, JWT authentication.
  - ✓ User-generated media contents transferring and storing.
  - ✓ Automated deployment (Github Actions, Docker, EC2).
- Open-source code: [link](#)
- Demo: [link](#)

### **Smarthome solution with OpenAI service (individual project)**

- Technologies: Android (Java), ESP32-IDF, Firebase, ChatGPT, Google Cloud Speech.
- Highlights:
  - ✓ Low-latency, context-aware verbal exchanges with ChatGPT.
  - ✓ Smart devices controlling by OpenAI function calling.
  - ✓ Real-time data tracking.
  - ✓ Smart configuring of headless devices.
- Open-source code: [link](#)
- Demo video (Vietnamese): [link](#)

### **EDUCATION**

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#### **HCMC University of Technology and Education**

*Undergraduate Bachelor of Embedded system and Internet of Things*

**HCMC, Vietnam**

Expected Graduation: 2024