

# TRAN QUOC HUY

Web developer

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Github: <https://github.com/tranquochuy645> | Portfolio: <https://tranquochuy645.github.io>

## SUMMARY

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Passionate about programming, I aim to build a career as a web developer. I invest a significant amount of time in building educational projects, honing solid skills in web development. 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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### Proficient:

- 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:

- AWS, GCP, Kubernetes, load balancing, serverless, cyber-security, CI/CD, GraphQL.

### Communication:

- Vietnamese (native), English (fluent).

## PROJECTS

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### My portfolio (individual project)

- Technologies: ReactJS.
- Highlights:
  - ✓ Responsive design with mobile scaling.
  - ✓ Achieved a perfect Lighthouse score of 100.
  - ✓ Automated bundle and deploy processes.
- Accessible online: <https://tranquochuy645.github.io>

### 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 process.
- Open-source code available: [https://github.com/tranquochuy645/messaging\\_and\\_video\\_call\\_webapp](https://github.com/tranquochuy645/messaging_and_video_call_webapp)

### 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 available: [https://github.com/tranquochuy645/smarthome\\_with\\_chatGPT](https://github.com/tranquochuy645/smarthome_with_chatGPT)

## **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