

# Nguyen Thanh Vinh

SOFTWARE ENGINEERING STUDENT

## ABOUT ME

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I'm a Software Engineering student at **Vietnam-Korea University of Information and Communication Technology (VKU)**. Experience building **full-stack web and mobile applications**, with interests in DevOps, cloud infrastructure, and AI-powered systems.

## EDUCATION

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### Vietnam-Korea University of Information and Communication Technology

- Software Engineering
- GPA: 3.44/4.0
- 2023 - 2028

## ACHIVEMENTS

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- Received Academic Encouragement Scholarship in 2025
- Encouragement Prize — VKU Robocar Competition 2025

## SKILLS

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- **Programming:** C++, Python, JavaScript.
- **Frontend:** React, Next.js, React Native (Expo), Tailwind CSS, Shadcn/ui.
- **Backend:** FastAPI, Prisma, MongoDB.
- **DevOps / Cloud:** Docker, GitLab CI/CD, Nginx, AWS S3, DigitalOcean.
- **Other:** WebRTC (LiveKit), OpenAI Embeddings, Firebase, Clerk.
- **Languages:** English (TOEIC 840 L/R)

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## PROJECTS

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### Photure - 2025

Self-hosted photo management platform with CI/CD Stack: FastAPI, React, Docker, Nginx, GitLab CI/CD, MongoDB, DigitalOcean

- Designed microservices architecture with 4 FastAPI services, React frontend, and Nginx reverse proxy using Docker Compose
- Built GitLab CI/CD pipeline: lint → build → push Docker images → deploy to DigitalOcean
- Implemented drag-and-drop batch upload and per-user data isolation
- Developed responsive photo gallery with filtering features

### Stoom - 2025

Real-time video conferencing platform

Stack: Next.js, WebRTC (LiveKit), MongoDB, Prisma

- Built real-time video conferencing using LiveKit with self-hosted coturn TURN/STUN server
- Implemented collaborative whiteboard (tldraw) and live shared notes (Tiptap)
- Developed host controls, permissions, screen sharing, and session history

### Koflix - 2025

Movie streaming platform with AI recommendations

Stack: Next.js, React Native (Expo), MongoDB, OpenAI Embeddings, AWS S3, Firebase Auth, FFmpeg

- Built Next.js admin dashboard and REST API with React Native Android client
- Implemented AI recommendation system using OpenAI Embeddings with MongoDB Atlas Search
- Developed HLS/MP4 streaming and offline downloads using FFmpeg
- Implemented role-based access control and Firebase authentication