

# NGUYEN THANH HUYNH

## Backend Engineer

Live: District 9, HCM | (+84) 984 883 750 | huynh2102@gmail.com  
Portfolio: brianhuynh2021.github.io | GitHub: [github.com/brianhuynh2021](https://github.com/brianhuynh2021)

## Professional Summary

Backend Engineer with 3+ years of experience designing, building, and deploying robust, scalable systems using Python, Django, FastAPI, PostgreSQL, and AWS. Expertise in clean architecture, cloud-native deployments, and system optimization. Committed to delivering excellence and solving complex engineering challenges effectively.

## Experience

### Freelance Backend Developer & CS Student

Remote | May 2025 - Present

- Actively solving Data Structures and Algorithms problems daily, with 50+ solutions for cracking the coding interview:  
[github.com/brianhuynh2021/python\\_leetcode/tree/master/coding\\_challenge/Python](https://github.com/brianhuynh2021/python_leetcode/tree/master/coding_challenge/Python)
- Pursuing a Bachelor's in Software Engineering at UIT-VNU-HCM.
- Developed a robust Course Management System with Django and SQLite, implemented CI/CD pipelines, and Dockerized deployment: [GitHub: github.com/brianhuynh2021/course-web-app-be](https://github.com/brianhuynh2021/course-web-app-be)

### Python Backend Developer

Bstar Solutions | Mar 2024 – Apr 2025

- Built scalable RESTful APIs using FastAPI, PostgreSQL, and Milvus to support advanced AI chatbot systems.
- Significantly optimized WebSocket chatbot performance, achieving a 40% reduction in latency.
- Managed deployment on AWS (S3, API Gateway), integrated automated alerting via Telegram Bot.

### Python Developer

Datafluct (Remote, Japan) | Sept 2022 – Feb 2024

- Improved performance of Django APIs through strategic PostgreSQL query optimization and indexing.
- Migrated and optimized backend services to AWS/GCP, enhancing system reliability and reducing operational costs.

### Python Developer

FPT Software | Sept 2020 – Aug 2022

- Engineered RESTful and GraphQL APIs using Django, FastAPI, Flask for a healthcare management platform.
- Implemented AWS CloudFormation to streamline deployment processes and minimize system downtime during updates.

### Selected Projects

- Course Management System
  - Web app using Django, SQLite, Docker.
  - Integrated auth, course CRUD, analytics dashboard.
  - CI/CD with GitHub Actions.
  - GitHub: [github.com/brianhuynh2021/course-web-app-be](https://github.com/brianhuynh2021/course-web-app-be)
- - AI chatbot repairement: [https://github.com/brianhuynh2021/repairmen\\_chatbot](https://github.com/brianhuynh2021/repairmen_chatbot)
- DSA Challenge Tracker
  - Solved 50+ LeetCode problems in Python
  - Repository: [github.com/brianhuynh2021/python\\_leetcode](https://github.com/brianhuynh2021/python_leetcode)

### Technical Skills

- Languages: Python (Django, FastAPI, Flask), SQL, others: JavaScript (Vue.js, Next.js).
- Databases: PostgreSQL, MySQL, Redis, SQLite, Milvus.
- Cloud & DevOps: AWS (S3, API Gateway), GCP, Docker.
- Tools: Pydantic, SQLAlchemy, Alembic, VSCode.
- CI & Testing: GitHub Actions.

### Education

- Diploma of Computer Science – University of Science, College of IT & Engineering  
(Sep 2010 - Oct 2013)
- Bachelor's in Software Engineering (Ongoing) – UIT–VNU-HCM (Apr 2024 – Present)
  - Balancing full-time work and studies focused on backend systems and distributed computing.

### Additional Skills

- Fluent in English (written & verbal)
- Exceptional analytical, problem-solving, and teamwork skills
- Continuous learner passionate about technology and innovation