Phuong Tan Thanh

Go Vap, Ho Chi Minh City | phuongtanthanh99@gmail.com | 0868 970 552
linkedin.com/in/thanh-phuongtan | github.com/ptt3199 | phuongtanthanh.vercel.app

PROFESSIONAL SUMMARY

Backend Engineer with hands-on experience in Python, FastAPI, Next.js, and cloud platforms (AWS, GCP). Proven ability to design, deploy, and maintain scalable microservices, CI/CD pipelines, and secure backend systems. Quick learner, strong communicator, and passionate about delivering clean, maintainable code. Recognized for technical leadership, problem-solving, and collaboration in fast-paced environments.

EXPERIENCE

Backend Developer
IPSIP

Mar 2025 – Present
Ho Chi Minh City, Vietnam

- Develop and maintain Python-based backend microservices using FastAPI for security threat detection products
- Implement serverless backend services with AWS Chalice and DynamoDB, optimizing for scalability and performance
- Collaborate with data science teams to transform ML models into production-ready RESTful APIs and web interfaces
- Provide technical support and solutions to internal teams, translating business requirements into technical implementations
- Apply clean code principles and maintain comprehensive documentation for all backend services

Backend Developer
Oryza System JSC

Apr 2024 – Mar 2025
Ho Chi Minh City, Vietnam

- Led development team building Oryza-AI platform using Python, FastAPI, and microservices architecture
- Designed and implemented RESTful and asynchronous APIs for camera management and AI integration systems
- Established CI/CD pipelines using GitLab CI and Docker containerization for streamlined deployment processes
- Architected scalable MongoDB database schemas and implemented RabbitMQ for reliable asynchronous task processing
- Enhanced system security through Keycloak integration, comprehensive API authentication, and data encryption
- Maintained Next.js frontend application, demonstrating full-stack capabilities across the technology stack
- Optimized system performance through efficient database queries, strategic caching, and code refactoring
- Collaborated with stakeholders to translate business needs into technical solutions and system updates

Data Scientist
AIVision

Jun 2023 – Mar 2024
Ho Chi Minh City, Vietnam

- Developed and deployed end-to-end AI-powered e-commerce chatbot using Langchain, OpenAI API, and RAG architecture
- Built scalable backend systems for computer vision applications using AWS cloud services (DynamoDB, Lambda, API Gateway)
- Implemented CI/CD pipelines using GitHub Actions for automated testing and deployment of web application backends
- Applied Agile/Scrum methodologies in daily development, participating in scrums and sprint retrospectives
- Collaborated with cross-functional teams to deliver high-quality solutions in fast-paced development environment
- Recognized as Employee of the Year for exceptional technical contributions and problem-solving abilities
- Maintained clean, efficient, and well-documented Python code following best practices and coding standards

PROJECTS

Personal Portfolio Website
Next.js, TypeScript, Tailwind CSS, Vercel   *2025 – Ongoing*

- Modern, responsive portfolio with markdown-based CMS, AI-powered note creation, and secure admin authentication
- Integrated Google Gemini AI, GitHub API, and Stagewise for content management and development workflow
- Deployed on Vercel with dark/light mode, dynamic project/blog management, and professional contact form
- **Live:** phuongtanthanh.vercel.app | **GitHub:** github.com/ptt3199/my-website

Flash Card Learning App
Next.js 15, Supabase, Clerk Auth, TypeScript *2025 – Ongoing*

- Intelligent flashcard app for language learning with cloud sync, AI-powered definitions, and audio support
- Dual storage (local/cloud), real-time sync, and mobile-optimized UI
- Integrated Supabase PostgreSQL, Clerk Auth, and Dictionary APIs
- **Live:** flashcard-ptt.vercel.app | **GitHub:** github.com/ptt3199/flashcard

Bank QR Code Generator
React, Go, Tailwind CSS, Vercel *2025*

- Fintech app generating TCCS 03:2018/NHNNVN compliant VietQR codes for all major Vietnamese banks
- Ultra-fast Go serverless backend, React frontend, and mobile-friendly design
- CRC-16 checksum validation, multi-bank support, and Vercel edge deployment
- **Live:** bank-qrcode-generator-phi.vercel.app | **GitHub:** github.com/ptt3199/bank-qrcode-generator

EDUCATION

B.E. in Mechatronics
Aug 2018 – Jun 2023
Ho Chi Minh City University of Technology (PFIEV Program) *Ho Chi Minh City, Vietnam*

- Thesis: Chinese Chess Robot (CV, ML, Python) – 99.8% accuracy in piece recognition
- Developed chess engine, mechanical/electrical analysis, and demoed full system

Math Major
Aug 2014 – May 2017
Hung Vuong Highschool for the Gifted *Gia Lai, Vietnam*

- Vietnam National Informatics Olympiad participant; 2nd place provincial informatics (2015, 2016)

TECHNOLOGIES

Backend	Python (FastAPI, Django), Java (Spring Boot), RESTful API Design
Databases	PostgreSQL, MongoDB, DynamoDB, Supabase
DevOps & Cloud	Docker, AWS (EC2, S3, Lambda, Chalice), Google Cloud Platform, CI/CD (GitHub Actions, GitLab CI), Traefik, RabbitMQ
Frontend	Next.js, React, TypeScript, HTML, CSS, JavaScript
Tools & Practices	Git, Microservices, Agile/Scrum, Linux, Bash, Nginx, Unit Testing (pytest)
Data Processing	PowerBI

CERTIFICATIONS & HONORS

Top 5 Most Active Mentees
2022
Back Khoa Mentoring Season 6 *Vietnam Alumni Mentoring*

Online Certifications
2021 – 2023
Coursera, Datacamp, Hackerrank

- Key areas: Machine Learning, Deep Learning, Cloud (GCP), SQL, Python, Java.

VOLUNTEERING

Team Leader
Nov 2018 – Aug 2019
BKFC Toi Yeu Bach Khoa - THPT Chuyen Hung Vuong Gia Lai

- Led a team of 20 members to organize an Admission Counseling program, attracting over 200 students.
- Managed social media and created monthly performance reports.

LANGUAGES

English	Professional working proficiency
French	Elementary proficiency