Nam Son Pham

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WORK EXPERIENCE

VNPT | Python, FastAPI, PostgreSQL, Docker, GitHub Actions
Backend Developer & DevOps
May 2024 - December 2024, January 2023 – August 2023

- Applied modern DevOps practices by containerizing applications with Docker and implementing automated CI/CD pipelines using GitHub Actions, streamlining deployment and testing workflows.
- Developed and maintained RESTful APIs using Python and FastAPI to support key enterprise features, including data processing, reporting, and internal system integrations.
- Improved database performance by contributing to schema design and optimizing PostgreSQL queries, resulting in faster data access and more reliable operations.
- Collaborated with senior engineers on system design, feature testing, and participated in peer code reviews to maintain engineering standards and improve code quality.
- Collaborated with developers, QA engineers, and business analysts to align solutions with requirements, resolve issues quickly, and deliver high-quality features, while building strong teamwork and problem-solving skills.

PROJECT

Portfolio Website with AWS Infrastructure & CI/CD (GitHub)
HTML, CSS, JavaScript, Docker, GitHub Actions, Terraform, AWS

- Built a personal portfolio website using HTML, CSS, and JavaScript, packaged with Docker for consistent local development and deployment.
- Implemented CI/CD pipelines with GitHub Actions to run tests, rebuild infrastructure, and deploy updates directly to EC2 (Dockerized app) or S3 (static hosting), reducing manual work and demonstrating practical DevOps automation.
- Provisioned AWS infrastructure with Terraform (remote state stored in S3) and experimented with two hosting approaches (EC2 and S3/CloudFront) to practice Infrastructure as Code, end-to-end infrastructure management, and scalable static hosting.
- Deployed the site on EC2 in private subnets across multiple AZs, fronted by an Application Load Balancer, with Route 53 handling DNS — demonstrating full-stack infrastructure management.
- Built a static hosting workflow on S3 with OAC, served via CloudFront for caching, SSL termination (ACM), and global distribution, integrated with Route 53 for a custom domain.
- Selected S3 + CloudFront as the final hosting solution for its scalability, cost-efficiency, and reliability, while using the EC2 deployment to gain deeper experience with AWS networking and infrastructure management.

SKILLS

Programming Language: Python, Java, Rust, C++, JavaScript, HTML, CSS
Database Management: PostgreSQL, MySQL, MongoDB, Firebase
DevOps & Cloud: Git, Docker, GitHub Actions, Terraform, Linux, AWS

EDUCATION

University of Alberta — Edmonton, AB
Bachelor of Science in Computer Engineering (Co-op), Software Option
Graduate: June 2025