

NAM SON PHAM

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EXPERIENCE

Backend Developer & DevOps

VNPT | Python, FastAPI, PostgreSQL, Docker, GitLab CI/CD

May 2024 - Dec. 2024, Jan. 2023 – Aug. 2023

- Applied modern DevOps practices by containerizing applications with Docker and implementing automated CI/CD pipelines using GitLab CI/CD, 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.

PROJECTS

Portfolio Website with AWS Infrastructure & CI/CD ([GitHub](#))

HTML, CSS, JavaScript, Docker, GitHub Actions, Terraform, AWS

- Built a personal portfolio website using React single-page app styled with Tailwind CSS, 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 in S3), implementing two hosting approaches (EC2 + ALB and S3 + CloudFront) to practice Infrastructure as Code, networking, and scalable static hosting, and added a secure contact system using AWS SES and Lambda with validation and delivery monitoring for professional communication.
- 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.

TECHNICAL SKILLS

Programming Language: Python, Java, Rust, C++, JavaScript, HTML, CSS

Database Management: PostgreSQL, MySQL, MongoDB, Firebase

DevOps & Cloud: Git, Nginx, Docker, GitHub Actions, GitLab CI/CD, Terraform, Linux, AWS

EDUCATION

University of Alberta

Bachelor of Science in Computer Engineering (Co-op), Software Option

Edmonton, AB

Sep. 2020 – May 2025

CERTIFICATION

AWS Certified Solutions Architect – Associate (SAA-C03) – In Progress, Expected [October 2025]