

Nga Hoang

SOFTWARE ENGINEER · PYTHON DEVELOPER · SOLUTION ARCHITECT

Tang Bat Ho Street, Hai Chau District, Da Nang City

☎ (+84) 794-508-421 | ✉ ngahv2222@gmail.com | 🌐 ngahoangdev.com | 📱 [ngahoangvan](https://www.instagram.com/ngahoangvan) | 💻 [ngahoangvan](https://www.linkedin.com/company/ngahoangvan)



Summary

I am a software engineer with over 5 years of experience in software, specializing in web development. My major programming language is Python, and I possess extensive knowledge and proficiency in popular Python web frameworks such as Django and Flask. Additionally, I have a strong background in Front-End development and am adept at utilizing frameworks such as ReactJS and Angular to develop dynamic web applications.

Throughout my career, I have had the opportunity to collaborate on projects involving top cloud platforms, including AWS, GCP, and Azure. I am skilled in requirement analysis and have a proven track record of providing effective technical solution proposals.

Skills

- Python | JavaScript | TypeScript | SQL | Django | Flask | Pandas | Plotly | Node | Express | React | Vue | NoSQL | Docker | Git
- AWS | Azure | GCP | On-Premises | CI/CD | Ariflow | ELK | Prometheus | Grafana | Locust | Lambda | OOP
- Microservices | Distributed Systems | Backend | Frontend | Full-stack

Experience

Saigon Technology

Da Nang, Vietnam

SOFTWARE ENGINEER

Nov 2022 - Oct 2023

- Developed a system to detect and recognize employees, collect employees' face data, and support internal timekeeping systems. Integrated parallel processing which reduces task processing time by 30%. Also used Kafka to communicate between each system and transfer data in real-time.
- Worked with American clients to build the data pipeline system using Airflow. Developed and maintained Airflow DAGs for seamless data processing from various services and generation of comprehensive reports.
- Performed requirement analysis and collaborated with the team to design the software architecture for the application.
- Set up CI/CD using the Bitbucket pipeline to deploy the system automatically.
- Technologies:
 - Language: Python, Javascript, Bash
 - Framework: Django, Flask, ReactJS
 - Tools: Airflow, ELK, Kafka, Docker
 - Deploy: AWS, On-Premise
 - CI/CD: Bitbucket pipeline, AWS CodeBuild, AWS CodePipeline, AWS CodeDeploy

Datatize

Singapore

SOFTWARE ENGINEER & QUANTITATIVE DEVELOPER

May 2021 - Oct 2022

- Everything that matters in development.
- Designed and provisioned the entire system infrastructure following microservices best practice.
- Built the Live Trading and Data Visualization Systems that give users insight into the price and trend. Also supported them for auto trading with their strategy and back-testing algorithm on multiple exchanges like Binance, FTX, and Deribit... Save their time up to 40% instead of trading on each exchange. Primarily focus on Python, ReactJS, Dash/Plotly, pandas, SQL, and NoSQL.
- Developed Airflow DAGs for crawl and process data from several crypto exchanges like Binance, FTX, Deribit,...
- Developed a real-time chatting system using Websocket, Firebase, and push notifications to mobile devices.
- Set up CI/CD using the GitHub Action to deploy the system automatically.
- Technologies:
 - Language: Python, Javascript, Bash
 - Framework: Dash, ReactJS,
 - Tools: Airflow, ELK, Grafana, SonarQube, Docker
 - Deploy: GCP, On-Premise
 - CI/CD: GitHub Action

Crypto Subscriptions

United States

FREELANCER FULL-STACK

Dec 2021 – Jul 2022

- Developed the Django backend server to create a robust and scalable RESTful API, ensuring efficient data processing and seamless integration with client applications.
- Conducted research and successfully implemented KYC (Know Your Customer) and MFA (Multi-Factor Authentication) functionalities to enhance system security and compliance.
- Integrated payment systems, Wyre and Plaid, enabling seamless and secure payment transactions within the application.
- Developed the ReactJS Front-End, and created dynamic UI to ensure an outstanding UX.
- Designed and implemented a cron job to handle subscriptions efficiently.
- Technologies:
 - Backend: Python, Django, Django Rest Framework.
 - Frontend: Javascript, React JS, HTML, CSS.
 - Database: PostgreSQL.
 - MFA: Twilio Authy.
 - E-KYC systems: Persona, Sumsb.
 - Payment systems: Wyre, Plaid.

NFT Marketplace

Da Nang, Vietnam

FREELANCER DEVOPS

Sep 2021 - Jan 2022

- Collaborated with the development team to deploy the application on AWS.
- Utilized Terraform to set up and manage the project's infrastructure architecture on AWS, resulting in an 80% reduction in time compared to manual setup.
- Configured GitLab CI for a CI/CD pipeline, integrating it with Terraform for automated builds and deployments.
- Technologies:
 - Language: Bash.
 - Infra as Code: Terraform.
 - CI/CD: Gitlab CI.
 - Cloud: AWS.

D-soft, JSC.

Da Nang, Vietnam

SOFTWARE ENGINEER

March 2019 - Apr 2021

- Developed web application tool to manage the IoT Device and Business System (Orders, Inventory, Warehouse).
- Working directly with Japanese/Indian clients to clarify a requirement.
- Implemented API microservice in Django, Flask.
- Researched and integrated Kubernetes into the project.
- Researched and utilized Microsoft Azure services such as AKS, ACR, IoT Hub,... into the project.
- Technologies:
 - Language: Python, Javascript, PHP, Bash
 - Framework: Django, Flask, Express, Laravel, ReactJS, VueJS
 - OS: Mac, Linux
 - Docker
 - Azure Cloud: Azure K8S Service, Azure Container Registry, Azure Storage, Azure IoT hub
 - CI/CD: Gitlab CI, GitHub Action

GMO-Z VietNamLab Center

Da Nang, Vietnam

INTERSHIP

Jan 2019 - March 2019

- Developed a web application for Japanese Examination Systems like tryjplt.com.
- Utilized Ansible and Docker for automatic setup and containerization.
- Main skills:
 - Language: PHP
 - Framework: Yii2
 - Ansible, Docker

Certificates

- 2023 **AWS Certified Solutions Architect – Associate**, Amazon Web Services (AWS)
- 2023 **Data Visualization with Python**, Coursera & IBM
- 2023 **Data Analysis with Python**, Coursera & IBM

Education

University of Science and Education, the University of Da Nang

Da Nang, Vietnam

BACHELOR, INFORMATION TECHNOLOGY MAJOR

2015-2019