Nga Hoang

SOFTWARE ENGINEER · PYTHON DEVELOPER · SOLUTION ARCHITECT

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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.

Objective

A software engineer seeking a role to apply technical expertise in full-stack development. I am committed to driving innovation, collaborating with teams, and contributing to projects.

Work Experience

Saigon Technology
Da Nang, Vietnam

SOFTWARE ENGINEER
Nov 2022 - Oct 2023

- 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.
- Developed a system to detect and recognize employees, collect employees' data, and support internal timekeeping systems
- Performed requirement analysis and collaborated with the team to design the software architecture for the application.
- Set up ELK to optimize searching queries and monitor the logging
- Set up Kafka to consume real-time messages
- 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.
- Worked with Python - Dash(Flask) to build the Live Trading and Data Visualization Systems.
- Supported build trading strategies, backtesting result.
- Used ReactJS to build extra components for Dash.
- Developed Airflow DAGs for crawl and process data from several crypto exchanges like Binance, FTX, Deribit,...
- Implemented several API microservices.
- Developed a real-time chatting system using Websocket, Firebase; push notification to mobile devices.
- Deployed a centralized logging environment(ELK) that gathers log data from docker containers.
- Provisioned a dashboard using Grafana - Prometheus to visualize and monitor the resources of the server.
- Set up self-hosted SonarQube to analyze code and scan vulnerabilities.
- Set up CI/CD using the GitHub Action to automatically deploy the system.
- 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 *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, Sumsub.
  - 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. Set up AWS S3 for Storage, SES for sending Email, Route53 for DNS, and VPC for public and private networks.
- 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).
- Developed web application tool to Debugging for AI system, Dashboard for Face Recognize System.
- Implemented API microservice in Django, Flask.
- R&D about Microsoft Azure.
- Built automated CI/CD pipelines on Gitlab CI, GitHub Action for containerized applications using Docker, Azure Container Registry and deployed onto Azure Kubernetes Service.
- 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 web application Japanse Examination System like tryjlpt.com.
- Built automated using Ansible-Docker.
- 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*