

QUANG NGUYEN

Software Engineer

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Overview

With over **3-years** of expertise in the realm of software development, specializing in web development, I possess a strong command of various areas. My skill set includes proficiency in Python, Django Framework, PostgreSQL, MySQL, and JavaScript technologies. Moreover, I have hands-on experience in front-end development employing HTML, CSS3, VueJS, React JS, Bootstrap and mobile with React Native. I'm also familiar with Docker and cloud services like AWS. I consistently engage in research to remain up-to-date with the latest technologies, tools, and frameworks, seamlessly integrating them into my projects. I always want to come up with innovative ideas and effective solutions. I have worked through projects about e-commerce, human resources, computer vision, data mining and finance.

Technical skills

- **Programming Languages:** Python, JavaScript/TypeScript.
- **Skills:**
 - **Programming Language and Framework:** Python, Django, Flask
 - **Databases:** PostgreSQL, MySQL, DynamoDB, MS SQL Server
 - **Front-End Development:** JavaScript, VueJs, JQuery, ReactJs, HTML5, CSS3, Bootstrap.
 - **Cloud:** AWS, GCP
 - **Mobile Development:** React Native
 - **BI Tools:** Superset, Tableau
 - **Version Control:** Git
 - **Agile Methodologies:** Scrum
 - Single Page Application, RESTful Web API
- **Tools:** Visual Studio, Visual Studio Code, Git, NPM, Yarn, Jira, Trello, Slack.

Experience

Finance System – US

Developer, January 2023 – March 2023

Project description

- Working on a team of 6 members including 1 Scrum Master, 1 Product Owner, 1 Team Leader, and 3 Developers.
- This project aims to develop a data pipeline system that could automatically process all the data from bank partners and release the report result for them.

Responsibilities

- Participated in testing Airflow DAGs, meticulously documenting test cases and generating comprehensive reports that capture both successful and failed outcomes.

- Implemented UI modifications utilizing Jinja2, JQuery, HTML, and CSS to enhance the report dashboard's performance and elevate the user experience.
- Carried out regular system maintenance to ensure optimal performance and scalability.

Technologies

- **Programming Languages:** Python, Jinja2, JQuery
- **Data library:** Pandas
- **Tools:** Airflow, SQL, Docker, AWS ECR, AWS ECS, Kafka, Snowflake, SQL, Datadog, Slack notification.

Face Recognition - Viet Nam

Developer, November 2022 – Present

Project description

- Working on a team of 6 members including 2 PMs, 4 Developers.
- We were tasked to build a face recognition system used to recognize and detect face, support for time-keeping for employees, and the system is supported on the web.

Responsibilities

- Designed and developed UI/UX web to collect data and interact with AI systems, fostering an intuitive user experience using Python and Django. Ensured high performance, security and scalability.
- Researched and implemented best practices (Django StyleGuide), new libraries, and frameworks to enhance development efficiency.
- Implemented RESTful APIs using Django Rest Framework for seamless communication between front-end and back-end systems.
- Worked on front-end development tasks, utilizing HTML, CSS, Bootstrap UI and JavaScript to create engaging user interfaces.
- Collaborated with team members in development and communication to stay up-to-date on the project.
- Applied Kafka in sending and receiving data between camera and web application.
- Designed and implemented database schemas using PostgreSQL, optimizing query performance and data integrity..
- Utilized version control systems like Git to track changes and collaborate with team members effectively.
- Conducted unit tests using Pytest with the testing coverage is around 90% and performed bug fixes to ensure software quality and stability.
- Clarify and implement features in web application side like: collect tracking image and statistics, manage tracking info, build statistics dashboard, export tracking report into CSV file, ...
- Setup, documented for users about the application.
- Packaging the code using Docker and deploying the system on the server using EC2.
- Use Apache Superset as a BI tool for data visualization, analytics and reports.

Technologies

- **Web development:** Python, Django framework, RESTful API
- **Front-end development:** HTML5, CSS3, JQuery, JavaScripts, Bootstrap
- **Databases:** PostgreSQL
- **Data management:** Apache Kafka, Redis, MinIO
- **Development tools:** Visual Studio Code
- **BI tools:** Apache Superset

Loan System – Indonesia

Developer, August 2022 – October 2022

Project description

- Working on a team of about many members.
- A financial system that helps users to loan money.

Responsibilities

- Work with developers from Indonesia to get the requirements and integrate the features to deliver for clients.
- Develop and maintain the back-end of the system using Python.
- Implemented RESTful APIs using Django Rest Framework for seamless communication between front-end and back-end systems.
- Collaborated with team members in development and communication to stay up-to-date on the project.
- Developed features with good code quality, minimized defects, ensured that deliveries are on-time and on-target.
- Clarify and implement module restrict user feature tasks in web application side like: module restricts user from paying late, activates user upon full payment.
- Applied Kafka, gRPC to facilitate seamless communication between modules, thereby ensuring real-time functionality of the system.
- Utilized version control systems like Git to track changes and collaborate with team members effectively.
- Conducted unit tests using Pytest and performed bug fixes to ensure software quality and stability.

Technologies

- **Web development:** Python, Django framework, RESTful API
- **Front-end development:** HTML5, CSS3, JQuery, ReactJS, Bootstrap
- **Databases:** PostgreSQL
- **Development tools:** Visual Studio Code
- **Messaging systems:** Apache Kafka, gRPC

Grocery eCommerce Platform – Philippines

Developer, April 2022 – July 2022

Project description

- Working on a team of about 20 members.
- An ecommerce system used as an online grocery store market.

Responsibilities

- Work with developers from the Philippines to get the requirements and integrate the feature rating, review products for the system.
- Develop and maintain the back-end of the system using Python, Django framework.
- Involve in designing database schemas using PostgreSQL for rating modules.
- Collaborated with team members in development and communication to stay up-to-date on the project.
- Developed features with good code quality, minimized reopened tickets, ensured that deliveries are on-time and on-target.
- Implemented RESTful APIs using Django Rest Framework for seamless communication between front-end and back-end systems.
- Utilized version control systems like Git to track changes and collaborate with team members effectively.
- Conducted unit tests using Pytest and performed bug fixes to ensure software quality and stability.

Technologies

- **Web development:** Python, Django framework, RESTful API
- **Front-end development:** HTML5, CSS3, JQuery, ReactJS, Bootstrap
- **Databases:** PostgreSQL
- **Development tools:** Visual Studio Code

Web Crawler – Japan

Developer, January 2022 – March 2022

Project description

- Working on a team of about 3 members including 1 PM, 2 Developers.
- A web tool used to crawl web data using specific jobs and tracking flight information.

Responsibilities

- Implemented RESTful APIs using Django Rest Framework for seamless communication between front-end and back-end systems.
- Collaborated with team members in development and communication to stay up-to-date on the project.
- Conducted thorough requirement analysis and actively fostered collaborative efforts within the team to find out software solutions.
- Involved in designing and implementing database schemas using PostgreSQL, optimizing query performance and data integrity..
- Utilized version control systems like Git to track changes and collaborate with team members effectively.
- Conducted unit tests using Pytest with the testing coverage is around 95% and performed bug fixes to ensure software quality and stability.
- Clarify and implement features in back-end applications like: data crawler, user login/registration, user management

Technologies

- **Web development:** Python, Django framework, RESTful API
- **Front-end development:** HTML5, CSS3, JQuery, ReactJS, Bootstrap
- **Development tools:** Visual Studio Code
- **Databases:** MySQL

Employee Evaluation Platform – Japan

Developer, January 2021 – October 2021

Project description

- Working on a team of about 3 members including 1 PM, 2 Developers.
- A platform used by companies to diagnose and make judgements based on statistics of candidates and employees.

Responsibilities

- Implemented RESTful APIs using Ruby On Rails Framework for seamless communication between front-end and back-end systems.
- Involved in developing the front-end side using VueJS with some features like: Admin dashboard, evaluation page.
- Collaborated with team members in development and communication to stay up-to-date on the project.
- Conducted thorough requirement analysis and actively fostered collaborative efforts within the team to find out software solutions.
- Researched and implemented Google OCR API for module text detection in image-based PDF files.

- Utilized version control systems like Git to track changes and collaborate with team members effectively.
- Conducted unit tests using RSpec with the high testing coverage and performed bug fixes to ensure software quality and stability.
- Clarify and implement features in the back-end application side like: user login/registration, user management, file upload/storage module, text detection module, evaluation module, billing module, ...
- Project gets an 8.5/10 customer satisfaction score.

Technologies

- **Back-end development:** Ruby, Ruby On Rails framework, RESTful API
- **Front-end development:** HTML5, CSS3, JQuery, VueJS, Bootstrap
- **Computer vision:** Google OCR API
- **Development tools:** Visual Studio Code
- **Databases:** MySQL.

Certifications

TOEIC: 860 (2022)

Awards

3rd prize of IOT-AI Hackathon 2019 Da Nang