

Long Le Huynh

Software engineer

Summary

Motivated and skilled software engineer with three years of backend Python development experience. The past three years have granted me valuable insights into various aspects of backend development, such as designing source code structures, writing clean code, implementing static code checks, and crafting comprehensive tests. I thrive in both collaborative and independent environments, seamlessly adapting to different work styles. The most rewarding aspect of being a backend developer is the continuous learning curve and the potential to leverage my experience to solve challenging problems. My eagerness to learn, coupled with my efficiency and proactive approach, makes me confident in my ability to excel in this role.

My github link: <https://github.com/longle997>

Personal Information:

- Email: lehuynhlong997@gmail.com
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Knowledge

- **Technologies:**
 - o Python, Javascript.
 - o Odoo, Fastapi, Django, ReactJs.
 - o SQLAlchemy, PostgreSQL, Redis.
 - o RestAPI.
 - o Pytest.
 - o Docker.
 - o SCM: SVN, Git
 - o OS: Windows, Linux
- **Industry Expertise:**
 - o Web development.

NashTech VietNam

Software Developer

Mar 2024 – Current

The objective of this project is to preserve existing features while developing new functionalities in accordance with client requirements. The web application is structured into multiple services, each with its own dedicated responsibilities. Notable technologies employed in this project include Python, FastAPI, SQLAlchemy, Redis, SQL, and connection pooling, among others.

- **Responsibilities:**
 - Enhance backend features in accordance with client requirements.

- Examine and investigate existing bugs, and propose solutions to the technical lead.

- Collaborate with colleagues to discuss new features and determine the best solutions.

- Implement new features with thorough documentation.

- Develop and execute unit tests and integration tests for new features.

- Work collaboratively with other teams, such as data engineering and front end, to resolve challenges.

- **Accomplishments:**

- Successfully enhanced backend features to meet client requirements, resulting in improved system performance and reliability.

- Proactively identified and resolved critical bugs, providing well-researched solutions that significantly reduced recurring issues.

- Collaborated closely with colleagues to brainstorm and implement innovative solutions for new features, ensuring alignment with overall project goals.

- Delivered comprehensive documentation for newly implemented features, streamlining maintenance processes and facilitating smoother onboarding for new team members.

- Developed and executed robust unit and integration tests, increasing overall test coverage and reducing post-deployment issues.

- Coordinated effectively with cross-functional teams, including data engineers, to resolve complex challenges and ensure timely project delivery.

- **Technologies:**

- Python.

- FastAPI.

- Redis.

- SQLAlchemy.

- Pytest.

Software Developer

Jan 2022 – Feb 2024

This project aims to enhance a suite of web applications in the legal sector by introducing a new feature built on the Odoo platform. These applications primarily utilize forms to gather user responses based on established questions. Our comprehensive implementation will encompass all levels, including controllers, services, and models.

- **Responsibilities:**

- Crafting a robust backend service with Python on the Odoo platform.

- Creating a user-friendly input answer feature. This intuitive interface will empower users to effortlessly provide answers to defined questions.
- Implementing a validation service. This safeguard will ensure accuracy and consistency within user input.
- Implement a storing service. This service will organize and store collected data in appropriate type.
- Implement send email service. This service will send email after a record is submit and update status.
- Implement report service. This feature will enable users to effortlessly view, and download informative reports
- Ensuring code quality through static checks and comprehensive unit and integration tests.
- **Accomplishments:**
 - Designing well-organized and efficient source code structures.
 - Implementing diverse software services utilizing Python, each tailored to specific needs.
 - Interacting effectively with PostgreSQL databases, both through administrative tools and raw SQL queries.
 - Crafting unit and integration tests for Python programs, ensuring robust and reliable functionality.
 - Leveraging static code analysis tools like SonarQube to identify and rectify potential code issues, promoting high-quality code.

- **Technologies:**

- Python.
- PostgreSQL.
- Redis.
- SVN, Git.
- Jira.
- Pytest.

Hitachi Vantara Vietnam Co. Ltd

Software Developer

Jan 2021 – Jan 2022

This project aims to modernize the back-end service by migrating it from Flask to the FastAPI framework. Additionally, we will enrich the service's functionality by implementing asynchronous APIs, a caching system, and robust search capabilities.

- **Responsibilities:**

- Constructing the back-end service using the Python FastAPI framework, a modern and performant choice.
- Developing asynchronous APIs to ensure efficient request processing and database communication.
- Implementing a caching system for optimized performance, utilizing a Redis server for data storage.
- Implementing a pagination feature to enhance user experience by streamlining output information.
- Building a robust search functionality to enable users to effectively filter data within the database.
- Enhancing code quality through static checks and comprehensive unit tests.
- **Accomplishments:**
 - Experience working with FastAPI framework and Python programming language.
 - Interacting effectively with PostgreSQL databases, both through administrative tools and raw SQL queries.
 - Crafting unit and integration tests for Python programs, ensuring robust and reliable functionality.
- **Technologies:**
 - Python.
 - PostgreSQL.
 - Redis.
 - SVN, Git.
 - Jira.
 - Pytest.

Software Developer

Aug 2020 – Dec 2020

Scope of project is to developing a Passenger Flow Management back-end service. The purpose of PFM back-end service is to forecasting the journey time of passenger near future to optimize the passenger processing operation.

- **Responsibilities:**
 - Design documents such as Basic Design, Detail Design.
 - Implement source code to collecting data from server using RestAPI.
 - Implement source code to processing input data, interact with Postgresql database and Redis database.
 - Implement source code to send processed data to server using RestAPI.
 - Implement test for source code.
- **Accomplishments:**

- Experienced Python programming language.
- Experienced interact with PostgreSQL, Redis database.
- Experienced using Python to build RestAPI request url.
- Experienced Unit Test with Python programming language.
- Experienced design documents.

- **Technologies:**

- Python.
- PostgreSQL.
- RestAPI.
- Redis.
- SVN, Git.
- Jira.

Software Engineer

Jan 2020– July 2020

Scope of project is to implement Unit Test and update source code.

- **Responsibilities:**

- Implement Unit Test for module ETHIF.
- Design Test Spec and Test CSV for Unit Test.
- Implement test CSV on WinAMS.
- Initialize environment for test.
- Update source code according to requirements from customer.

- **Accomplishments:**

- Experienced C/C++ programming and Unit Test.
- Experienced Detail Design.

- **Technologies:**

- WinAMS.
- SVN, Git.
- Jira, Redmine.
- V-model.

Software Engineer

Aug 2019– Dec 2019

Scope of project is to design MCU for car following AUTOSAR standard.

- **Responsibilities:**

- Implement Driver Unit Test and Driver Detail Design for module ICU.
- Design Test Spec and Test App for Driver Unit Test.

- Implement Test App on Cantata.
- Implement configuration generation tool using C#.
- Design diagram using Enterprise Architect.
- **Accomplishments:**
 - Experienced C programming and Driver Unit Test.
 - Experienced Driver Detail Design.
 - Involved in all software development phases.
- **Technologies:**
 - Cantata.
 - SVN.
 - Enterprise Architect.
 - Jira, Redmine.
 - V-model.
 - Using DaVinci Configurator.

Prior Work History

Personal project

React - Django e-commerce web application project

- An e-commerce web application with all key features. Secure user authentication, including login, logout, registration, and password recovery options, ensures a safe and convenient platform for users. Clients can effortlessly navigate the intuitive purchase flow, from browsing product listings and exploring detailed product information to adding items to their cart, selecting a shipping address, and placing their order. For administrators, a dedicated management interface grants the ability to view, edit, and manage client user information, product details, and order data. Please visit my github for more detail: <https://github.com/longle997/django-react-ecommerce>

Fastapi blog project

- Back-end service provide almost all key features for a blog website. Some features are: create user (email verification), login by email and password, change password, forgot password for user, create post, create post like, post comment ... Please visit my github for more detail: https://github.com/longle997/fast_api

Django blog project

- Provide a simple blog website, user can login and create, update and delete post. User profile feature in order to provide information about user, user can also update their profile information. Please visit my github for more detail: https://github.com/longle997/Python_Django_Blog

React to do list project

- Simple website handle to-do list using React framework. Functions of to-do list are: add, delete and modify task. Beside user can sort or search tasks. Please visit my github for more detail: <https://github.com/longle997/to-do-list-reactjs-redux>

Education and Certifications

- Bachelor of Telecommunication Engineering from SaiGon Technology University
- 2019