

Nikhil Pavan Kumar J

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Senior Python Developer

Python, FastAPI, Django, SQL, MySQL, PostgreSQL, Bitbucket, Jenkins, Pycharm, VS Code, Windows, Linux

- A Senior Python Developer around 4 **years** of experience in Web Backend Development.
- Having good experience in using IDE tools like **Pycharm** and Visual Studio Code. Worked on several python packages like Requests, **Pytest**.
- Having experience in using frameworks like **FastAPI, Django and Flask**.
- Hands-on experience in developing and deploying scalable backend applications using **AWS Lambda** for asynchronous processing and integration tasks in cloud-based environments.
- Over **2 years** of hands-on experience in developing serverless applications and **REST APIs** using **AWS Lambda** and **Flask**, with a strong focus on scalable and event-driven backend architecture.
- Around **2 years** of hands-on experience in designing and developing robust web applications using the **Django framework**, including ORM, admin customization, and **RESTful API** integration.
- Strong proficiency in building **RESTful APIs** using both **Django** and **Flask frameworks**, applied across enterprise-level applications and chatbot platforms.
- Having knowledge in SDLC Requirements, Design, Development and Maintenance of Applications and Tools. Having good experience in Object Oriented Concepts with Python.
- Good experience in error and exceptional handling.
- Experience in writing test cases and development best practices such as code reviews and unit testing.
- Having basic work experience in AWS by creating AWS instances and Route 53.
- Having good experience in code maintenance tools like GIT, Bitbucket, JiraSoftware and Confluence. Good experience in operating systems like Windows, Linux.
- Helping and Sometimes lead the team members with the challenges faced during the project development process and ability to learn new technologies and also work in a team environment as well as independently to get things done.

Technical Skills

Concepts: Object-Oriented programming, Web development, API Development

Scripting Languages: Python

Frameworks: FastAPI, Django

Testing Frameworks: Pytest

Operating Systems: Windows7 & 10, Linux

Code Maintenance Tools: GIT, Gitlab, Bitbucket

Database: SQL, PostgreSQL, MySQL, SQLAlchemy

Professional Experience

- **JULY (2021) - Present:** Senior Python Developer in Bengaluru Client Location is Cognizant.

Education

- **BA:** Osmania University, Hyderabad – **84%**

Projects

#1 PostYourCar (Client - AutoTrader)

Company: Cognizant

Team Size: 15

Project Duration: (OCT 2022 – TILL DATE)

Technologies and tools: Python, Django, PostgreSQL, Git and Bitbucket, AWS (Lambda, EC2, S3)

My Role: Python Developer

Description:

PostYourCar is an online auction platform that allows individual vehicle owners to list their cars for bidding by potential buyers. The platform provides real-time bidding functionality, advanced filtering options, and location-based vehicle discovery to enhance the user experience.

Responsibilities:

- Understand the business process and initiate the implementation.
- **Developed a dynamic auction platform** using the **Django framework**, enabling users to list and bid on vehicles in real time.
- **Integrated geolocation APIs** to determine users' locations and display nearby vehicle listings for a better user experience.
- **Developed advanced filtering functionalities** to allow users to search based on criteria like **make, model, year, and price**.
- Integrated **AWS Lambda functions** to handle background processing tasks like image resizing and bid notifications asynchronously.
- Utilized **AWS S3** for storing car images and documents uploaded by users securely and efficiently.
- Deployed the application on **AWS EC2** instances, ensuring scalability and uptime using auto-scaling and load balancing.
- **Performed rigorous testing and debugging** of the bidding system to ensure reliability and stability under **high-traffic conditions**
- **Managed database operations** with **Django ORM and PostgreSQL**, ensuring efficient storage and retrieval of vehicle listings and bid history.

#2 CAIP (Conversational AI Platform)

Company: Cognizant **Team Size:** 11

Project Duration: (JULY 2021 - SEP 2022)

Technologies and tools: Python, Flask, FastAPI, PostgreSQL, Pandas, Pytest, VS Code, Linux

My Role: Senior Python Developer

Description:

The primary goal of building a Conversational AI Platform is to develop multiple chatbots for various customers across diverse domains, enabling them to learn from a wide range of data types and provide multiple skills, including Q&A, to enterprise users.

Responsibilities:

- Managed a unique repository (It's based on an extraction process involving file formats such as .pdf, .docx, .ppt, .pptx, .txt, images, tables, and HTML) using FastAPI.
- Developed and maintained APIs using both Flask and FastAPI frameworks to support chatbot services.
- Understood the requirements and initiated the implementation process.
- Created generic functionalities and reusable service modules.
- Maintained log details in our database.
- Managed the code in Bitbucket and contributed to deploying this application.
- Provided support for issues until the launch.