Rishi Pandey, Python Developer

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LINKS

Linkdin, github, Portfolio

PROFILE

Dynamic Python Web Developer with 2.5 years of hands-on experience in crafting robust and scalable web solutions. Proficient in utilizing cutting-edge technologies such as FastAPI and Docker to streamline development processes and optimize performance. Skilled in deploying applications on AWS EC2, managing PostgreSQL databases, and adept in web scraping techniques. Experienced in contributing to projects involving LLMS (Large language models) and LangChain. Passionate about delivering high-quality code and contributing to innovative projects in dynamic environments.

EMPLOYMENT HISTORY

Jun 2022 — Present

Python Developer, Brainerhub solutions

Currently employed as a Python developer at Brainerhub solutions, where my role involves developing and maintaining Python-based applications. I utilize my skills in Python, Django, Git, JavaScript, SQL, Docker, Linux, and FastApi to deliver high-quality software solutions.

Dec 2021 — Jun 2022

Python developer, Coodeit solutions

At Coodeit Solutions, I commenced my tenure as a Backend Developer, engaging in a pivotal project amalgamating Artificial Intelligence with backend development. This multifaceted endeavor entailed leveraging Django Rest framework in conjunction with SQL database technologies. My role encompassed implementing robust backend solutions that seamlessly integrated AI functionalities, thereby contributing to the project's overarching objectives with professionalism and expertise.

SKILLS

Python	Django
Docker	LangChain
SQL	Numpy
AWS (EC2, S3)	Pandas
Linux	Web scraping
Git	Hugging face
Fastapi	Postgresql

PROJECTS

Oct 2023 — Present

Digital Twin

As part of my role at Intemic, I led the development of the Digital Twin project, aimed at creating a comprehensive platform for simulating real-world scenarios digitally. Leveraging technologies such as FastAPI, Docker, SQLAlchemy, PostgreSQL, AWS S3, and Databricks, I spearheaded the implementation of various components crucial to the project's success.

Key Contributions:

- Developed role-based user and organization services, ensuring secure access and data management.
- Designed and implemented APIs for uploading data and creating data tables in the database using uploaded CSV/Excel files, facilitating seamless data integration.
- Implemented robust test cases using pytest to ensure the reliability and integrity of the developed functionalities.
- Orchestrated the creation of Docker images and Docker Compose files to streamline deployment and scalability.
- Collaborated with cross-functional teams to integrate AWS S3 and Databricks services, enhancing data processing capabilities.

Outcome: The Digital Twin project revolutionized our client's ability to simulate and analyze real-world scenarios digitally, providing valuable insights for decision-making and strategy development

May 2021 — Present

Discord Bot

Designed and developed a Discord bot entirely from scratch using Python, serving as a multifunctional assistant within the Discord community. Leveraged a wide array of technologies to create a robust and feature-rich bot. Utilized PostgreSQL for data management, Docker and Docker Compose for containerization, and Alembic for database migrations to ensure seamless scalability. Employed shell scripting for automation and efficiency in various aspects of bot management.

Certainly! Here's a project description you can use for your resume:

Project Title: Discord Bot Development

Description: Designed and developed a Discord bot entirely from scratch using Python, serving as a multifunctional assistant within the Discord community. Leveraged a wide array of technologies to create a robust and feature-rich bot. Utilized PostgreSQL for data management, Docker and Docker Compose for containerization, and Alembic for database migrations to ensure seamless scalability. Employed shell scripting for automation and efficiency in various aspects of bot management.

Technologies Utilized:

- **Programming Languages:** Python
- **Databases:** PostgreSQL
- **Containerization:** Docker, Docker Compose
- **Database Migrations:** Alembic
- **Scripting:** Shell scripting
- **Cloud Services:** AWS EC2
- **Image Manipulation:** Pillow (Python Imaging Library)
- **Integration:** Third-party APIs

OTHER SMALL PROJECTS

Mar 2024 — Mar 2024

Face detection using Python

Developed a Python project for similar face detection using the face detection library. This project aimed to identify and compare similarities between faces in images, enabling applications such as facial recognition and similarity analysis.

Technologies Used:

- **Programming Language:** Python
- **Libraries:** Face detection library

Mar 2023 — Mar 2023

Fine-tuning LLM

Developed a custom language model based on OpenAI's GPT architecture and fine-tuned it with domain-specific data using Langchain. The fine-tuned model was deployed and served through Pinecone, a vector database for efficient similarity search and retrieval, enabling real-time natural language processing applications with high accuracy and scalability.

Technologies Used:

- **Language Model:** OpenAI's GPT architecture
- **Custom Model Training:** Langchain
- **Vector Database:** Pinecone

Apr 2023 — Jul 2024

Assert Gateway

Developed a robust inventory management system using FastAPI for backend API services and Jinja templates for frontend rendering. Leveraging PostgreSQL and SQLAlchemy 2.0, the system provided efficient data storage and retrieval capabilities, ensuring seamless inventory tracking and management.

Technologies Used:

- **Backend Framework:** FastAPI
- **Frontend Templating:** Jinja
- **Database:** PostgreSQL
- **ORM:** SQLAlchemy 2.0

Aug 2023 — Oct 2023

Web scrapping Project

Developed a custom Django API to scrape data from sports news articles based on client requirements. Leveraging Selenium and BeautifulSoup, the API provided dynamic web scraping capabilities, allowing clients to retrieve relevant sports news data programmatically.

- **Web Scraping:** Selenium, BeautifulSoup