Vaibhav V

Backend Engineer, 6+ years experience
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I am an AI focused Backend Engineer with over 6 years of experience in building scalable, cloud native solutions, now specializing in Generative AI, Retrieval-Augmented Generation (RAG), and conversational AI systems. Proven track record in designing and deploying enterprise grade AI applications, including chatbots using LLMs, integrating LangChain pipelines, and deploying vector search systems. Adept at combining NLP techniques, secure access control (RBAC, ABAC), and cloud orchestration (Azure, GCP, Kubernetes) to deliver robust and intelligent AI driven products. I thrive in collaborative environments where I can lead technical efforts, solve complex problems, and deliver impactful results. Spearheaded the design and deployment of a generative AI chatbot leveraging LangChain, LLMs, and RAG architecture, enhancing enterprise query resolution by 85percentage. Integrated vector databases for domain specific knowledge retrieval and implemented caching and fallback logic for seamless response handling. Designed architecture to support zero code model provisioning, enabling business users to invoke and switch between models on demand. Built modular AI pipelines using Azure Functions, GKE, and Cloud Run with model orchestration through Jenkins and Flask APIs. Developed custom pipelines using Lang Chain to connect the chatbot to real time databases, ensuring up to date responses and increasing customer satisfaction by 25 percentage

INDUSTRIES: Software and Platforms

TECHNICAL SKILLS

• phython	6 years & 4 months
• database management system	6 years & 4 months
• API Development	5 years
• JavaScript	4 years & 4 months
• Cloud Platforms	4 years
• Automation	4 years
• Docker	4 years
• Kubernetes	4 years
• CI CD Pipeline	4 years
• React js	3 years & 4 months
• AI ML Frameworks	3 years & 4 months

SOFT SKILLS

Teamwork, Critical thinking

PROJECT DETAILS

• Europe Connect

Project Description: It is a project for tour management and selling holiday packages. The project is of B2B type where users are agents and super user and staff members, it is divided into admin panel and web application for agents and end users to visit package info

Responsibilities: Backend Development: Develop and maintain scalable, secure backend services using Python and Django, including RESTful APIs for user roles (agents, staff, superusers), package listings, bookings, and transactions. Role-Based Access & Authentication: Implement user authentication and role-based access control to manage different privileges for agents, staff, and superusers within the system. Admin Panel & Agent Dashboard: Build features for the admin panel (package management, agent monitoring, reports) and agent portal (package browsing, bookings, quotations) with real-time data handling. Database& Performance Optimization: Design and manage relational databases (PostgreSQL/MySQL), optimize queries, ensure data integrity, and implement caching/performance improvements. Testing, Collaboration & Documentation: Write unit tests, debug backend issues, work collaboratively using Git and Agile methods, and maintain clear documentation for APIs and system processes

Technologies: Amazon S3 buckets, Python, Django, React JS, PostgreSQL

Industry: Software and Platforms

• Supply Chain Trends Automation

Project Description: Developed a white labeled product which will automate the supply chain management of Trends reducing the 150 day life cycle to 5 days.

Responsibilities: Engineered scalable APIs with FastAPI to automate order, inventory, and vendor management. Built Kafka-based messaging queues for real-time event handling and process automation. Managed cloud-native deployment using Docker and Kubernetes with full CI/CD via Azure DevOps.

Technologies: React, Python,FastAPI, PostgreSQL, Kafka, Azure DevOps, Docker, Kubernetes

Industry: Software and Platforms

• SocialListening&TrendPredictionTool

Project Description: An AI-powered social listening platform designed to analyze content from TikTok, YouTube Shorts, and Instagram Reels to predict the virality potential of audios, reels, and trends

Responsibilities: Developed RESTful APIs using Django Rest Framework and FastAPI for data ingestion and trend analysis. Implemented ML models to classify and score content based on historical virality and engagement metrics. Built custom Apache Airflow DAGs to automate data extraction, transformation, and loading (ETL) pipelines. Integrated RapidAPI to collect data from multiple social platforms. Managed AWS infrastructure, including deployment and autoscaling.

Technologies: Django Rest Framework, FastAPI, React, AWS, PostgreSQL, Apache Airflow, SQLAlchemy, RapidAPI

Industry: Software and Platforms

EDUCATION

• Bachelors degree in B.Tech - Computer Science and Engineering from Nirma University, Institute of Technology — 2015 - 2019

LANGUAGES

• English - advanced

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