NIKUNJ VAGHASIYA

Ahmedabad, GJ (Open to Relocate) | +91 7490818340 | nikunjvaghasiya638@gmail.com | LinkedIn | GitHub

Professional Summary

Backend and AI Engineer with experience building production-ready APIs, AI microservices, and scalable data processing workflows using Python. Skilled in Django, FastAPI, Celery, PostgreSQL, and cloud deployments on Microsoft Azure. Worked on system design, database structure, asynchronous processing, and CI/CD pipelines using Azure DevOps. Focused on writing clean, maintainable code and improving performance, reliability, and usability across systems. Comfortable collaborating across teams to turn real requirements into practical, stable solutions.

Skills

- **Languages & Frameworks:** Python, Django, FastAPI
- **AI/LLM Tools:** OpenAI SDK, Google Generative AI SDK, LangChain, LangGraph
- **Databases:** PostgreSQL, MySQL, SQLAlchemy
- **Vector & Search Tools:** pgvector, Azure AI Search
- **Cloud & DevOps:** Azure DevOps, Azure Functions, Azure App Service, Azure Blob Storage, Azure Service Bus, Keyvault, Webjob, Google Cloud Platform,
- **Tools & Technologies:** Git, Nginx, Apache2, FFMPEG
- **Core Concepts:** OOPS, MVT architecture, REST APIs, Web Services

Experience

Elastic Serve Pvt. Ltd. **Ahmedabad, Gujarat**

Software Engineer (Backend) - Python / Django | Azure Jan 2025 – Present

- Designed and developed **backend APIs and business logic** using Python, Django, and Django REST Framework to support workforce onboarding, job workflows, skill mapping, and engagement modules.
- Participated in **system architecture** and **database schema design**, including entity modeling, indexing strategy, and relationship mapping for PostgreSQL-based modules.
- Implemented **RBAC** (Role-Based Access Control) and user permission workflows to support organization-level access segmentation and multi-tenant data isolation.
- Developed Backoffice Administration Modules enabling internal teams to manage partner organizations, job requisitions, screening workflows, user lifecycle processes, and analytics configuration.
- Implemented asynchronous data processing using **Celery** for background job handling such as file parsing, notification workflows, and scheduled data sync operations.
- Developed and integrated **Azure Function Apps** (HTTP triggers & Service Bus triggers) to offload compute-heavy workflows and build **microservice-like modular components** alongside the core Django monolith.
- Integrated **Azure Service Bus** for event-driven communication between Django backend and Azure Functions to support reliable distributed processing.
- Work closely with product owners, business teams, and end-users to analyze real use cases, clarify requirements, and convert problem statements into workable engineering solutions.
- Developed a Content Analyser application using **FastAPI** and **PostgreSQL**, powered by **Gemini 2.5 Flash** and **OpenAI GPT-4o** for advanced text processing and insights.

CreadApp Software Pvt. Ltd **Ahmedabad, Gujarat**

Python Developer Feb 2021 – Dec 2024

- Acted as the sole Python & AI engineer, responsible for designing and implementing AI-driven microservices integrated into a core Laravel + Flutter + React product ecosystem.
- Collaborated with third-party AI vendors and research partners to evaluate new models, understand integration requirements, and align capabilities with product use cases.
- Developed AI-based media processing services, including
  - Image background removal service using pre-trained computer vision models.
  - Text-to-Image generation pipelines using state-of-the-art generative models.
  - Text-to-Speech conversion service with multilingual and tone-controlled output.

- Built scalable REST API microservices to serve AI functionality to mobile and web clients, ensuring low-latency inference and optimized request handling.

- Designed and maintained data preprocessing pipelines for image normalization, resizing, noise removal, and metadata tagging to enable efficient processing and storage.
- Deployed and optimized GPU-enabled Azure VM environments for AI inference workloads:
    - Installed and configured CUDA toolkit, cuDNN, and GPU acceleration libraries.
    - Managed VM scaling, performance monitoring, and cost optimization strategies
- Actively participated in team meetings, contributing ideas and solutions for improving development processes and workflow efficiency.
- Created internal backoffice tools for reviewing and improving image recommendation and content suggestion accuracy.
- Participated directly in brainstorming and product architecture discussions, contributing technical insights for bringing new AI-driven capabilities into production.

Education

- **Government Polytechnic Ahmedabad** **Amd, GJ**
  Diploma in Computer Engineering 2015 – 2018