ALI MIRSA

Backend Python Developer

+91 8592033444 | mirzamailbox0@gmail.com | GitHub

SUMMARY OF PROFILE

I'm a self-taught backend developer with 2 years of experience, specializing in Django, FastAPI, and Python. I have a strong passion for building scalable web applications and optimizing performance. My expertise includes designing RESTful APIs, working with databases like PostgreSQL and MongoDB, and implementing WebSockets for real-time communication. I also have hands-on experience with Redis for caching and message brokering, along with Crewai, an agent framework for AI-driven applications. I thrive on solving complex problems, collaborating with teams, and continuously learning to stay ahead in the ever-evolving tech world

SKILLS

- **Backend Development** - Django (DRF), Fastapi, Crewai
- **Frontend Development** - Bootstrap , HTML , CSS
- **Integrations** - Razorpay , Stripe , websocket , wit.ai , Google Auth , Firebase Verification , Hugging face
- **Data Structure** - Linked List , Searching , Sorting , Stack , Queue , HashMap , Tree , Trie , Graph

- **Database** - SQL , No SQL (MongoDB, PostgreSQL,MySQL)
- **Deployment** - NGINX , AWS EC2 , S3
- **Tools** -Redis,Docker , Git , Postman , Figma
- **Other** -ORM , ML , LLM

WORK EXPERIANCE

Foundation Engineer (Backend & AI Agents),Nypus
Ernakulam,Kerala

1/2025-4/2025

- Designed and developed multi-agent systems using **CrewAI**, enhancing automation and AI-driven workflows.
- Integrated multi-agent systems with the **Django** backend, ensuring seamless interaction between AI agents and web applications.
- Implemented **WebSocket**-based real-time communication, enabling efficient data exchange between agents and the backend.
- Utilized **Redis** for caching, message queuing, and optimizing performance in agent interactions.
- Developed robust APIs for agent communication and data processing, improving backend efficiency.
- Optimized system performance and scalability, ensuring smooth deployment and integration of AI agents.

Backend developer, Innodot Innovation
Trivandrum,Kerala

1/2024-12/2024

- Designed and developed RESTful APIs using **Django** and **FastAPI**, ensuring high performance and scalability.
- Collaborated with React and Flutter developers to integrate backend services seamlessly with frontend applications.
- Worked in a team of **5 developers**, contributing to efficient project execution and agile development.
- Led the backend development for multiple projects, including:
- **Hospital Management** System (HMS) – Developed key modules for patient management, appointment scheduling, and billing.
- **E-commerce** Platform – Built secure and scalable APIs for product listing, cart management, and payment processing.
- **E-learning Platform** – Created API endpoints for course management, user authentication, and progress tracking.

Python Django Developer Intern,Brototype

6/2023 - 1/2024

PROJECT

Founder's Office – AI-Powered Automation for Enterprises

[GitHub]

Developed an AI-driven B2B SaaS platform designed to automate various business operations, enhancing efficiency and productivity. The project includes three key departments—HR, Sales, and Marketing—each powered by AI-driven teams specializing in onboarding, recruitment, content creation, market analysis, and more.

- **AI Teams & Automation**: Built up to **9 AI-powered teams** to streamline critical company functions, such as candidate onboarding, recruitment automation, and other operational processes.
- **Task Orchestration**: Implemented a structured workflow using **CrewAI** to enable seamless task execution across AI agents.
- **Real-time Processing**: Integrated **WebSockets** for live updates and Celery with **Redis** for efficient asynchronous task management.
- **Scalability & Flexibility**: Designed the platform to support the addition of new AI teams, enabling customization based on business needs.
- **Security & Compliance**: Ensured robust data security while automating sensitive business processes.

Technologies Used: **CrewAI, Django, Celery, WebSockets, Redis, LLMs, PostgreSQL, Git.**

Smartphone E-Commerce Platform (with image detection)

[GitHub]

Developed a comprehensive e-commerce platform specializing in smartphones, featuring an extensive range of functionalities catering to both users and administrators.

- **Chatbot Integration**: Implemented a chatbot using **Wit.ai** to assist customers with product availability inquiries and order status tracking.
- **Image Detection**: Added an **ML model** for image detection to improve user experience with accurate product recommendations.
- **Payment Options**: Integrated multiple payment methods, including **Wallet Payment, Razorpay**, and **Cash on Delivery**, to enhance user convenience.
- **Admin Features**: An admin interface with functionalities to add products, manage product categories, handle inventory management, and perform image cropping.
- **Hosting and Version Control**: Deployed the application on **AWS (EC2)** and managed version control with Git, ensuring smooth deployment and maintenance.

Technologies Used - **Django , Python , AWS (EC2) , Razorpay , PostgreSQL , HTML , CSS , JavaScript , Git , Wit.ai , Image Detection**

AI Real-Time Avatar Interaction

[GitHub]

Developed an interactive AI avatar for real-time communication, featuring a 3D avatar model loaded in the web using Three.js. Integrated **WebSocket** for real-time interaction and utilized **Gemini** for processing. Implemented **Rhubarb** for accurate lip-syncing and a **Hugging Face** model for emotion detection in text. Enhanced the avatar's communication capabilities with **TTS** and **PyAudio** for audio processing.

- Key Features: Real-Time Interaction, Lip-Syncing, Emotion Detection, TTS Integration

Technologies Used - **Django , WebSocket , Gemini , Rhubarb , Hugging Face , TTS, PyAudio, JavaScript , Python**

Employment Payroll Management Software

[GitHub]

Developed a dynamic payroll management system designed to streamline employee payment processes while maintaining robust data security.

- **Employee Management**: Enabled adding and updating **employee details**, including personal and professional information.
- **Custom Rule Settings**: Allowed the creation of customizable rules for salary computation, such as **tax deductions and bonus allocation**.

Technologies Used: **Django (DRF), Python, PostgreSQL, Git.**