# MOHAMMAD ASAD

## Python/Django Developer

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🌐 Portfolio | 🔗 LinkedIn | 🐙 GitHub

## SUMMARY

Passionate **Python/Django developer** with **8+ months** of **hands-on experience** in building web applications and implementing **AI/ML** solutions. Proficient in **backend development**, **database management**, and **data science**, with a strong **problem-solving** mindset. Currently contributing to impactful projects at **WeSalvator.**

## SKILLS

- **Programming & Frameworks:** Python, C, Django, DRF, FastAPI, HTML, CSS, JavaScript
- **Databases, Caching & ML:** MySQL, PostgreSQL, DBMS, Redis, Data Science, Machine Learning
- **API Development & Architecture:** REST APIs, JWT Authentication, WebSockets, Django Channels, Microservices, Docker, .env Configs, LeafletJS
- **Testing & Code Quality:** Postman, pytest, SonarQube
- **Version Control & Tools:** Git, GitHub, Gitea, Tableau

## EXPERIENCE

**Python/Django Developer Intern, WeSalvator | 🌐 Project Url**                    **Nov 2024 - Present**

- Developed **WeSalvator**, an animal rescue platform with separate roles for **users**, **volunteers**, and **organizations**, using Django monolith with built-in templates.
- Migrated to a **microservices architecture** with services like **auth**, **rescue**, **geolocation**, and **API gateway**, using **Django REST Framework** and **FastAPI**.
- Implemented **JWT-based authentication** with **access and refresh tokens**, supporting secure, role-based login and session handling.
- Built and tested **REST APIs** for smooth communication between **microservices** and frontend, using **Postman** for API testing and **pytest** for unit testing.
- Added **real-time volunteer tracking** using **Django Channels**, **Redis**, and **WebSockets** with **LeafletJS** maps.
- Managed database models and queries using **PostgreSQL ORM**.
- Used **Docker** to run services in isolated environments for easier development and deployment.
- Ensured code quality and maintainability by integrating **SonarQube** for static code analysis and following clean, modular coding practices.
- Used **Git** for version control and collaborated via **GitHub/Gitea** for seamless **CI/CD** workflows.

## EDUCATION

**Bachelor of Technology in CSE (AI & ML)**                    **2020 - 2024**
Khwaja Moinuddin Chishti Language University, Lucknow
🎓 **SGPA:** 8.15

## PROJECTS

**Movie Recommendation System | 🐙 GitHub**
- Developed a content-based recommendation engine using **cosine similarity**.
- Built an interactive frontend using **Streamlit**.
- Suggested movies based on user-selected input with poster and metadata display.

**Buyer Seller E-commerce Backend | 🐙 GitHub**
- Built a full-featured **e-commerce backend** using **Django**, **Django REST Framework**, and **MySQL**.
- Implemented **JWT authentication**, role-based user access (buyer/seller), and product/order. management APIs.
- Enabled **product search**, pagination, and buyer-side order placement with multi-item support.
- Provided Postman collection, SQL dump, .env setup, and full deployment documentation.