MOHSAN YASEEN

Python/ Backend Developer

🗺 Lahore, **Pakistan**

Experienced **Python/ Backend Developer** with a passion for crafting **innovative solutions**. Adept at turning complex challenges into elegant, efficient code. Specialized in **automation, data extraction, and API development**. Proven track record in seamlessly integrating diverse technologies to drive project success. Committed to delivering **high-quality software** solutions and eager to contribute to cutting-edge projects in a dynamic work environment.

CONTACT

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TECHNICAL SKILLS

- Python (FastAPI, Flask, Django)
- ReactJS
- JavaScript (jQuery, Ajax)
- Web Scraping
- Restful APIs
- Database Designing
- Oracle / MySQL / PostgreSQL
- Redis
- Git
- ML / Computer Visio

TOOLS

- Postman
- Google Cloud
- Ubuntu

PROFESSIONAL EXPERIENCE

1. HRMatrix:
Jan 2024 – continue

Python Developer

As a Python Developer at HRMatrix, a **project-based company** located in the **USA**, I specialize in **integrating AI models** and **building Restful APIs**. My role revolves around seamlessly **integrating Django frameworks** with AI models to develop robust and efficient APIs. This involves ensuring the smooth communication between **AI functionalities and the APIs**, contributing to the overall project success.

- Spearheaded the development of **AI Survey Bot**, enhancing **HRMatrix's software** suite and providing advanced survey capabilities to clients.
- Seamlessly **integrated AI functionalities** such as Resume Parsing and **Interview Bot** into existing HRMatrix software, optimizing workflows and improving user experience.
- Contributed to the enhancement of HRMatrix's product offerings by developing AI solutions like AI Interview Bot and AI Survey Bot, aligning with the company's **focus on innovative HR technology**.
- Played a pivotal role in the implementation of **AI Face Attendance** feature within HRMatrix's software, leveraging Python development skills to **ensure accuracy and efficiency** in attendance management.

2. TecSpine:
Aug 2023 – Jan 2024

Python Developer

As a Python Developer at TecSpine, I play a pivotal role in developing and maintaining various software components. My core responsibilities encompass **Web Scraping**, **API Development**, Backend Development, **Database Design**, Collaboration, and **testing**.

- Spearheaded key initiatives to enhance data retrieval efficiency, **automate email** data integration into **Monday.com**, and implement robust solutions for data **extraction from eBay**.
- Leveraged diverse technologies including **pandas, Django, PostgreSQL**, **Redis, Flask**, Beautiful Soup, and JSON to optimize processes and ensure data consistency.
- Engineered backend APIs resulting in an **90% reduction in lengthy data processing** times by transforming US listing data from CSV files into **a streamlined database**, utilizing **Django**, PostgreSQL, JSON, and **Redis**.

➢ Designed and implemented a comprehensive solution for **data extraction** from **eBay**, integrating custom filters and queries to curate **relevant information and generate CVs**. Utilized Flask, BeautifulSoup, Scraper API, pandas, and JSON, and implemented a **scheduler to automate** periodic **data scraping**, resulting in a **65% increase** in data volume.

3. PMS (Pvt.) Ltd. *Jun 2022 – Aug 2022*

Oracle Developer Intern

Two-month internship at **PMS (Pvt.) Ltd.**, specializing in **Oracle Database** design development using **Oracle 6i and 10g tools**. Contributed to the **WAPDA** Project by designing and implementing databases, forms, and reports for multiple modules.

EDUCATION

BS Software Engineering *Sep 2019 – Jul 2023*

The University of Lahore (UOL)
CGPA: 3.04

COURSEWORK

AI-Based Caption Generating	Personal Project	March 2024 – Continue

- Leveraging **state-of-the-art** techniques including **semantic segmentation**, and **natural language** processing with models like **GPT**, to automatically generate descriptive captions for images.
- Designing and refining a **sophisticated pipeline** that integrates **computer vision** and **deep learning** methodologies, aimed at **enhancing the quality** and coherence of generated captions, thus contributing to advancing the understanding of visual data by machines.
- Demonstrating expertise in **artificial intelligence** and **machine learning** through **meticulous experimentation** and **continuous improvement** of the image captioning pipeline, showcasing a **commitment to pushing technological** boundaries to address real-world challenges in the realm of computer vision and natural language understanding.
- Actively engaged in **research and development activities** focused on **advancing AI-based** image captioning technology, with a strong emphasis on **innovation and problem-solving**, reflecting a proactive approach to driving technological **advancements** in the field of **artificial intelligence**.

AI-Based Surveillance System	FYP	Feb 2023 – April 2023

- Developed a **cutting-edge web application** utilizing **deep learning and computer vision technologies** to enable real-time tracking and **re-identification** of individuals in videos and live camera feeds.
- Utilized Python, HTML, CSS, and JavaScript to create an immersive user experience and facilitate seamless surveillance operations.
- **Technologies**: **Python, Machine Learning, Computer Vision**, HTML, CSS, JavaScript | Implemented Machine Learning (**OpenCV & TensorFlow**) for object detection and re-identification

ACHIEVEMENTS

1. **AIEF 1st National AI Championship (Jul-2023):**
   - Selected as one of the **top 30 AI projects** out of 200 at the AI Championship organized by **LUMS University, FAST University, Soliton Technologies**, and the **Artificial Intelligence Education Foundation**.
   - **Awarded a certificate** for outstanding participation and performance in the competition.

2. **AI Applications – WowDAO (Oct-2023):**
   - Participated in the Global AI **Hackathon** organized by WowDAO
   - Showcased skills, learned, and networked within a dynamic and diverse environment
   - Grateful for the **opportunity and eagerly anticipating** future events for continued growth and collaboration

3. **Ignite funding (2023):**
   - Project selected for Ignite funding **among 8,000 out of 25,000** applicants
   - Recognized for **innovation and potential** impact among a competitive pool of projects.