

Omar Rasheed

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Portfolio: pythondev958.github.io/omar_portfolio

Professional Summary

Backend Developer and Database Specialist with 3+ years of experience designing scalable, secure APIs and data-driven applications. Skilled in Python, Django, Flask, and FastAPI, with strong expertise in database administration, automation, and real-time system integrations. Passionate about AI and machine learning, delivering automation and analytics solutions for enterprise and federal projects. Known for clean, efficient code and effective collaboration in cross-functional teams to drive impactful results.

Objective

Seeking to leverage backend development and database engineering expertise to build high-performance, reliable applications. Committed to developing scalable software solutions, optimizing system performance, and contributing to innovative teams driving technology forward.

Education

Bahria University Islamabad

Bachelor of Science in Computer Science (BSCS)

CGPA: 3.28 / 4.0

Project and Professional Experience

Software Engineer – Senior Python Developer

SeQuenX AI — March 2025 to May 2025

- Designed a Webflow API automation pipeline with webhooks and real-time polling.
- Developed backend logic to sync Webflow eCommerce inventory and orders using FastAPI and Python.
- Automated data retrieval, error handling, and status tracking to streamline eCommerce workflows.

Associate Database Developer

iENGINEERING Pvt. Ltd. — June 2024 to March 2025

- Developed and maintained Oracle and SQL Server databases for major U.S. federal projects including US FHWA, NASA MERRA Tools, BDPT, LTPP InfoPave, and LTBP InfoBridge.
- Executed high-volume data migrations using Oracle Data Pump (expdp/impdp).
- Built and maintained scalable data models using Toad Data Modeler; enhanced documentation with Dataedo.
- Automated PL/SQL and T-SQL scripts to improve database performance and reduce redundancy.
- Worked with federal data compliance teams to meet analytical and infrastructure standards.

Backend Developer

KINS247 — May 2024

- Developed Django-based backend modules for VoIP billing via CGRates.
- Built RESTful APIs to process real-time call session data and manage billing logic.

Database Developer

Appedology Pvt. Ltd. — October 2022 to March 2024

- Maintained and optimized SQL Server databases used in U.S.-based healthcare and medical billing systems.
- Implemented replication for high availability and disaster recovery; monitored using SQL Server Replication Monitor.

- Scheduled automated tasks via SQL Server Agent and reduced manual maintenance overhead.
- Improved query performance with indexing (clustered and non-clustered), covering indexes, and clustering strategies.
- Built Power BI dashboards and improved report generation speed by 30%.
- Automated ETL workflows and data validation to reduce billing errors.

Database Administrator

DataQ Health — June 2022 to July 2022

- Designed and deployed a custom EMR module integrated with Snowflake and AWS S3.
- Enhanced data ingestion pipeline performance by 25% using Python and optimized SQL.

Python Developer

Tangent Technologies — August 2020 to October 2020

- Maintained ODOO ERP system for medical records.
- Developed custom modules and improved reporting capabilities.

Software QA Intern

Bahria University — July 2018 to September 2018

- Performed automated and manual testing using Selenium, Postman, and Jira.
- Verified API responses, UI behavior, and application stability.

Freelancer

Remote — 2021 to 2022

- Delivered full stack and database-driven web applications using Python, Django, .NET C#, MySQL, SQL Server, and MongoDB.
 - Built responsive frontend interfaces with HTML, CSS, and Bootstrap.
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Notable Projects

- **Aerial Object Detection Using YOLOv8**
Developed an AI-powered system to detect and annotate multiple objects in drone-based aerial videos using YOLOv8 and OpenCV. Applications include smart city traffic monitoring, disaster management, and surveillance. Processed various real-world videos for accurate object detection.
GitHub: https://github.com/pythondev958/Aerial_Object_Detection_YOLOv8
- **Realtime Video Object Detection**
Built a real-time multi-object detection system using YOLO models and OpenCV. Designed to process live video streams and prerecorded videos for dynamic object tracking and analysis, useful in security and monitoring systems.
GitHub: https://github.com/pythondev958/Realtime_Video_Object_Detection
- **Multiple Object Detection with YOLO**
Implemented a multi-object detection pipeline using YOLO to identify various classes of objects in video frames. Focused on improving accuracy and speed for real-time applications, laying groundwork for drone and IoT-based smart surveillance solutions.
GitHub: https://github.com/pythondev958/YOLO_Multi_Object_Detection
- **Animal Data ETL Pipeline with CI/CD**
Developed a Python-based ETL system with GitHub Actions and Docker to automate testing, deployment, and container orchestration.
- **Traffic Congestion Analysis using Blockchain, ML & IoT (Final Year Project)**
Collected and processed traffic data using IoT sensors (Arduino Uno), Python, and Pandas. Visualized via QGIS and secured data with blockchain for integrity assurance.
- **Switch247 CSV Automation**
Created Django REST APIs to upload CSVs and automatically generate models and tables using PostgreSQL.
- **MyDupChecker (Deployed on Heroku)**
Designed a machine learning-based tool to detect and eliminate duplicate records in datasets.
- **Customer Quality Prediction & Shopify Review Analyzer**
Built and deployed ML models hosted on Heroku to analyze customer feedback.
- **Additional Projects:** Chatbot Expert System, Transport Management System, Pedagogical Learning App, Linear Regression for House Pricing on Kaggle.

Core Competencies and Technical Skills

- **Languages:** Python, SQL, HTML
- **Backend Frameworks:** Django, Flask, FastAPI, Django REST Framework, MVC architecture
- **Web Automation & Integration:** API polling, Web Scraping, Postman (API Testing), Selenium
- **CI/CD & DevOps:** GitHub Actions, Docker
- **Automation & Integration:** API Polling, Web Scraping, Webhooks, Selenium, Postman
- **DevOps & Tools:** GitHub Actions (CI/CD), Docker, Git, Toad Data Modeler, Dataedo
- **Data Science & Analytics:** Pandas, NumPy, Scikit-learn, Classification, Clustering, Data Preprocessing, Power BI, Tableau, QGIS
- **Computer Vision & Deep Learning:** YOLOv8 (Ultralytics), OpenCV, Real-time Video Processing
- **Databases:** MySQL, PostgreSQL, Oracle, MS SQL Server, MongoDB, Snowflake
- **Database Skills:** Replication, Indexing, Clustering, Query Optimization, Job Scheduling, Data Modeling, ETL Pipelines
- **Data Science & Visualization:** Pandas, Scikit-learn, Power BI, Tableau, QGIS
- **Tools:** Dataedo, Toad Data Modeler, requests, Git
- **Other:** MS Word, Excel, PowerPoint (Documentation & Reporting)

Achievements and Certifications

- **Data Science Orientation** – Coursera
- **Python 101 for Data Science** – Cognitive Class
- **Machine Learning with Python** – freeCodeCamp credential:
<https://www.freecodecamp.org/certification/omark786786/machine-learning-with-python-v7>

- **Data Visualization** – freeCodeCamp
credential: <https://www.freecodecamp.org/certification/omark786786/data-visualization>
 - **Introduction to Programming Using Python** – Microsoft / Udemy
credential: <https://www.udemy.com/certificate/UC-65763b65-b836-435c-847f-2c9700b24555>
 - **Blockchain Web Development on Ethereum** – Udemy
credential: <https://www.udemy.com/certificate/UC-3f8512ec-1888-4735-9241-6b01cd4e893c>
 - **🔗 Complete Guide to Bot Creation** – Udemy
credential: <https://www.udemy.com/certificate/UC-930f2ffc-84a3-40aa-afb9-e41c4892dba2>
 - **88% Accuracy in Kaggle ML Competition** – Individual Project
 - **Winner – Application Development Contest** – Islamic University
 - **The Complete Digital Marketing Course (12-in-1)** – Udemy
 - **Digital Marketing Masterclass (23-in-1)** – Udemy
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Additional Experience

Customer Sales Representative

Ibex Global — November 2020 to March 2021

- Strengthened multitasking and communication skills in a dynamic support role.
 - Provided technical and customer service support for U.S.-based clients.
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References

Sarim Mehboob

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Further references available upon request.