MOAZZAM RIAZ

SOFTWARE ENGINEER

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SUMMARY

Software Engineer with hands-on experience in EDI, Python, Java, Flutter, PHP and AI/ML. Skilled in building scalable applications, applying AI and automation techniques, solving complex problems. Adept at delivering efficient, user-focused solutions in collaborative and fast-paced environments.

PROFESSIONAL EXPERIENCE

ECOM Specialist, LLC (Remote) - *EDI / B2B Integrator Developer*   **Aug 2024 - Present**

- Engineered and optimized EDI maps in IBM Sterling B2B Integrator, improving data transformation efficiency by 25% across formats like X12, EDIFACT, XML, CSV, and JSON.
- Led an EDI integration project, successfully implementing 10+ data mappings while ensuring a 98% on-time delivery rate.
- Leveraged SQL and logical programming to automate data validation, reducing manual errors by 30% and enhancing EDI workflow accuracy.

AzulCode Technology Inc. (Karachi) - *AI / Python Developer*   **May 2025 - Present**

- Developed and designed Flask-based APIs for scalable and high-performance backend systems, improving system efficiency by 30%.
- Designed and optimized PostgreSQL database schemas and queries, reducing query execution time by 15%.
- Implemented AI integration into applications, including model usage and fine-tuning, enhancing decision-making accuracy by 40%.
- Applied prompt engineering to deliver intelligent, production-ready solutions, increasing automation reliability by 75%.
- Used Selenium and Playwright to automate complex functions that typically require human interaction, improving operational efficiency by 50%.
- Managed cloud deployments on AWS.

PROJECTS

- **DummyFlight – Flight Reservation System -** A full-stack flight booking system using Flask, PostgreSQL, and Next.js, integrated with real-time flight APIs for search and reservations, utilized AI for automated ticket generation, and deployed on AWS for scalability and high availability.

- **DriveSense360 -** Vehicle tracking app using Flutter, Dart and IoT for my final year project, integrating Firebase and ZEGOCLOUD to manage location, speed, and communication, improving tracking efficiency by 30%.

- **ASAF** - A captivating quiz app using Flutter and Dart for a Canadian client, handling both frontend and backend, integrating Firebase and Google login, reducing quiz response errors by 40% through optimized logic and validation.

- **Echo Trail** - Designed and developed the complete UI for a mobile assistive app aimed at visually impaired users, featuring voice navigation, obstacle alerts, and item tracking for enhanced accessibility.

- **Hotel Management System** - Hotel Management System using Java, applying Object-Oriented Programming (OOP) principles to efficiently manage traveler information, room assignments, and bookings with a clean, user-friendly GUI for seamless data entry, updates, and deletions.

- **Capturing Serenity** - A dynamic photography website using Laravel, with MySQL for storing user data and managing content efficiently.

- **AI Chatbot** - An AI chatbot using Gemini, LangChain, and Streamlit. Integrated memory for conversation recall and multi-model for visual, PDF and text based queries.

- **ChatWithWeb** - A webpage chatbot using LlamaHub's webpage reader with OpenAI api for queries and Panel Framework for UI.

- **Drowsiness Detection** - Fine-tuned a YOLOv5 model for drowsiness detection using Torch, Ultralytics, OpenCV, and NumPy—achieving a detection accuracy of 92%.

TECHNICAL SKILLS

Python	Java	EDI Mapping	Data Annotation
Flutter	Dart	IBM Sterling B2Bi	LangChain
Laravel	Kotlin	Firebase	PHP
AI/ML	MySQL	HTML / CSS	Javascript

EDUCATION

Bachelor of Science in Software Engineering   **Sep 2020 - Aug 2024**

University of Lahore

Intermediate   **March 2018 - April 2020**

Govt. College SRE-III Majeed, Stadium Road, Karachi