

Abdul Rafay Atiq

Location: Gulistan-e-Johar, Block-15, Karachi, Pakistan

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Portfolio: <https://abdul-rafay-atiq-ai-dev.vercel.app/>

Technical Skills

- **Programming:** Python, Flask, Django, FastAPI, RESTful APIs
 - **Databases:** PostgreSQL, MySQL, Django ORM, Flask ORM, Query Optimization
 - **Backend Development:** Scalable architecture, JWT authentication, API design
 - **AI/ML Frameworks:** TensorFlow, PyTorch, YOLO, EfficientDet, Langchain, LLM
 - **Tools & Technologies:** Docker, OpenCV, Swagger, Postman, Git
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Professional Experience

Software Engineer

Devroute (SMC-PVT) Ltd., Karachi | July 2024 - Present

- Designed and developed **high-performance REST APIs** using Django REST Framework, ensuring **99.9% uptime** and scalability.
- Optimized database queries, reducing execution times by **30%** through advanced query refactoring in PostgreSQL.
- Integrated TensorFlow and YOLO for real-time **AI-powered object detection and classification**, achieving high accuracy.
- Automated repetitive tasks with custom Python scripts, improving development pipeline efficiency by **40%**.
- Containerized backend services using **Docker**, ensuring consistent deployment across environments.

Associate Python Developer

Tassaract, Karachi | August 2023 - July 2024

- Built scalable Flask and Django-based RESTful APIs for seamless component communication.
- Managed MySQL databases, ensuring **data integrity** and optimizing retrieval with Flask/Django ORM.
- Integrated third-party APIs to enhance application functionality and user engagement.
- Streamlined backend performance, enabling reliable and efficient service delivery.

Python Developer

Disrupt Labs LLC, Karachi | June 2023 - July 2023

- Collaborated on Flask-based web applications, contributing to project delivery within tight deadlines.
- Leveraged OpenCV for computer vision tasks, improving application usability in image processing.

Python Developer Intern

Codes Soft, Karachi | December 2022 - January 2023

- Contributed to ERPNext development, implementing Python scripts to enhance system features.
 - Designed solutions to improve application performance and database operations.
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Education

University of Karachi | Bachelor of Software Engineering | Expected Graduation: 2025

AI-Driven CRM and Marketplace for PPE and Eyewear Fitting

Technologies: Python, OpenCV, Google Face Mesh, Django, Django REST Framework, Redis, PostgreSQL, Docker, Stripe, Git

- Developed a large-scale CRM integrated with a marketplace for personal protective equipment (PPE) and eyewear

- Engineered an AI-powered recommendation engine that matches facial geometry to ideal product fits using 478-point facial landmark detection
 - Built modular components for employee onboarding, gear allocation, and multi-role access (employee, partner, admin, superadmin)
 - Integrated Stripe for secure payments and Redis for API performance optimization
 - Designed for enterprise scalability with analytics, dashboards, and cloud-native architecture
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Social Commerce Platform for Auto Enthusiasts

Technologies: Python, Django, Django REST Framework, PostgreSQL, Redis, WebSockets, Docker, Stripe

- Created a feature-rich social platform enabling users to buy, sell, and list vehicles and auto parts
 - Implemented group-based communities, event boards, user timelines, and role-based permission control
 - Enabled live video broadcasting, threaded discussions, and real-time chat functionality using WebSockets
 - Integrated Stripe for payment processing and developed analytics dashboards to track engagement and reach
 - Focused on high scalability, personalization, and seamless user experience
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Smart Gear Management and E-Commerce System

Technologies: Python, Django, Django REST Framework, PostgreSQL, Redis, Docker, Stripe

- Designed a scalable application for selling gear and managing logistics in real-time
 - Integrated real-time messaging between buyers and sellers, booking system, and inventory control
 - Implemented Stripe-based payment flow and geolocation features for order tracking
 - Ensured high performance with Dockerized deployment and API efficiency using Redis
 - Built for modern retailers and marketplaces with enterprise-grade architecture
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AI-Powered Voice and Vision Medical Assistant (Multimodal AI)

Technologies: Python, Gradio, Meta LLaMA-4 Maverick, Groq API (multimodal), Hugging Face, Speech-to-Text, Text-to-Speech

- Developed a prototype combining voice and image input for medical symptom analysis and diagnosis
- Used LLaMA-4 for symptom interpretation and Groq's multimodal models for image analysis
- Integrated voice recognition and synthesis to enhance accessibility and usability in remote diagnostics
- Designed for real-time, AI-based healthcare support in low-resource and telemedicine settings.