

# MALIK AQIB MEHMOOD

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## Work Experience

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**Ministry of Defence, Govt of Pakistan** | *Flutter + Django*

Feb 2023 – Present

- Designed and developed solutions to enhance administration processes, optimizing efficiency.
- Designed and led the development of a Medical Tourism application using Django, Flutter and Postgres, showcasing collaboration with team members to deliver a streamlined solution
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Analyzed requirements, leading the design, development, and implementation of software applications
- Developed web applications and seamlessly integrated solutions into business operations for enhanced functionality.

**RF Technologies** | *Flutter + Django*

Dec 2022 – Feb 2023

- Managed and improved existing applications, as well as designed and delivered new applications.
- Collaborated cross-functionally to design and implement database schema, APIs, and front-end functionalities.
- Identified and implemented system enhancements to optimize functionality and streamline administration process
- Applied change control best practices to development processes for seamless software enhancements without user disruptions.

**DAXNO TECHNOLOGIES PVT LTD** | *Flutter*

April 2022 – Dec 2022

- Led a team of mobile developers in building enterprise-level Flutter applications backed by Firebase and Firestore.
- Integrated Firebase Authentication, Firestore, and Cloud Functions for real-time features and enhanced
- Ensured pixel-perfect UI implementation and responsiveness across Android and iOS platforms.

## Projects

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**Ride Share App** | *Flutter, Django, PostgreSQL, AWS, GoogleMaps*

- Developed a ride-sharing mobile application using Flutter for a smooth user experience and Django as the backend for real-time ride management
- Integrated Google Maps API for real-time ride tracking, route optimization, and fare calculation.
- Implemented WebSockets (Django Channels) for live ride status updates, driver-rider communication, and ride requests.
- Used Firebase Cloud Messaging (FCM) for instant push notifications, including ride requests, driver arrivals, and payment confirmations.

**DocPilot- Self-Hosted AI Document Chat System** | *Flutter, Django, Ollama*

- Developed a privacy-focused AI chat application enabling users to upload documents (PDF, CSV, XLS, etc.) and receive contextual answers based solely on their content. Built a Flutter + Bloc interactive chat interface and a Django REST backend for document processing, indexing, and AI orchestration. Integrated LangChain for retrieval-augmented generation (RAG) with Ollama to run local LLMs, ensuring no cloud data storage. Used HuggingFace embeddings for vector search and PostgreSQL for scalable storage. Designed for security, offline operation, and real-world private AI workflows.

**e-Health Management System** | *Django, Flutter, Vue.js, PostgreSQL, Docker*

- Developed a Vue.js(web), Flutter(app) and Django Rest Framework application to streamline health operations. Implemented features include patient registration, access to complete health history, handling invoices, and booking onsite and online appointments

**Elite Run App** | *Flutter, Firebase, Google Maps, Stripe, WebSockets*

- Developed a feature-rich running and activity tracking app using Flutter for an intuitive user experience and Firebase for real-time data management.
- Integrated Google Maps API for accurate GPS tracking of running routes, pace, elevation, and heart rate monitoring.
- Enabled ERA community engagement with social media-like feeds, allowing users to share run logs, training progress, and achievements.
- Built Guided Runs with voice-assisted coaching, providing real-time motivation and performance tracking.
- Developed a challenge system where users can create and join running challenges, earn badges, and compete with friends.

## Technical Skills

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**Languages:** Python,Dart, C/C++, SQL (Postgres), JavaScript

**Frameworks:** Django, Flutter, Firebase

**Libraries & Tools:** pandas, NumPy, Beautiful Soup, Selenium

**Developer Tools:** Git, VS Code, Visual Studio, Windsurf, .

## Education

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**Comsats University** | *Bachelor of Science in Computer Science*

Feb 2016 — Feb 2020