MALIK AQIB MEHMOOD

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WORK EXPERIENCE

Techaccess | Senior Software Developer Oct 2025 — Present

- Design and develop enterprise-level software solutions to enhance administrative and operational processes.
- Lead development of scalable web and mobile applications using Django, Flutter, Vue.js.
- Built a large-scale data platform that ingests, cleans, stores, and serves about 15 TB of event data through REST APIs and a map-based dashboard.
- Developed the Django REST backend, PostgreSQL and ClickHouse data layer, and the query APIs behind map search, date filters, profiles, and summary stats.
- Collaborate with cross-functional teams to gather requirements, translate business needs into technical solutions, and deliver high-quality products.
- Optimize application performance, reliability, and maintainability through clean architecture and best practices.
- Participate in code reviews, testing, and deployment cycles to ensure robust and secure releases.
- Delivered production Flutter and Vue.js features for client portals, including realtime modules and API-backed dashboards.

Ministry of Defence, Govt of Pakistan | Python Django, Flutter Developer Feb 2023 — Sep 2025

- 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.
- 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.
- Shipped internal admin and operational tools that improved day-to-day workflows across departments.

RF Technologies | Python 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.
- Ensured pixel-perfect UI implementation and responsiveness across Android and iOS platforms.

PROJECTS

VeMessage Collaboration Portal | Flutter, Dart, RESTful APIs, WebSockets, Firebase Cloud Messaging (FCM)

- Built a multi-module Flutter portal (Android & iOS) for societies and organizations covering complaints/tickets, billing, broadcasts, SOS, surveys, vendor/home services, and resident workflows.
- Designed and shipped a Marketplace module: listings, buy/sell flow, in-app chat, transactions, earnings, disputes, favorites, and role-based resident/staff permissions.
- Built vendor management for home services: vendor registration, categories, document upload, profiles, reviews, and staff/resident flows integrated with RESTful APIs.
- Developed a Blood Bank module: donor profiles, blood-group search, request/accept flow, request chat, and live alerts via WebSockets and FCM push.
- Implemented real-time features (WebSocket subscriptions + Firebase Cloud Messaging) across marketplace, blood bank, vendors/home services, carpool, and complaint updates via RESTful API integration.

Large-scale Event Data Platform | Django, PostgreSQL, ClickHouse, Redis, Celery

- Data platform that stores and queries about 15 TB of event data and shows it on a map-based dashboard.
- Split into ingestion, cleaning, and analytics. PostgreSQL/PostGIS holds cleaned application data. ClickHouse handles large analytical reads.
- Batch loading and a Redis/Celery pipeline validate and normalize raw records without copying the full dataset into PostgreSQL.
- Map, search, and summary APIs support area search, date filters, and aggregates, and stay responsive across tens of millions of rows.

- Checked results against known test cases and fixed mismatches in locations, record counts, and date ranges.

DocPilot (AI Document Assistant) | Python, Django, Vue.js, Flutter, Ollama, Hugging Face, RAG

- Built an AI-powered document Q&A platform where users upload PDFs and other files, then chat with full LLM-backed answers grounded in their own content.
- Developed a Django REST backend with document ingestion, chunking, vector embeddings via Hugging Face, and Retrieval-Augmented Generation (RAG) for context-aware responses.
- Integrated Ollama for local LLM inference, combining retrieved document chunks with the model to generate accurate, source-aware answers.
- Delivered cross-platform clients: Vue.js web dashboard and Flutter mobile app, both consuming the same Django APIs for upload, search, and chat.

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

- Developed a Vue.js and Django Rest Framework application to streamline health operations including patient registration, health history, invoices, and appointments.

Ao Chalen (Ride Share App) | Flutter, Django, PostgreSQL, AWS, GoogleMaps

- Developed a ride-sharing mobile application using Flutter and Django 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 and ride requests.
- Used Firebase Cloud Messaging (FCM) for instant push notifications.

Medical Tourism | Python, Django, Vue.js, PostgreSQL, Docker

- Built a Medical Tourism SPA with medical care, transport, visa assistance, hotel bookings, interpreters, and guides.
- Integrated secure payment gateway; Vue.js, VueRouter, and Tailwind CSS for the interface.
- Designed a sales dashboard with summary and graph chart formats.

Resource Management System | Python, Django, Vue.js, PostgreSQL, Docker

- Built an end-to-end application for managing organizational assets using Django Rest Framework and React.js with dashboards and reporting.

CRM | Python, Django, React, PostgreSQL, Docker

- Contributed to a Multi-Tenant CRM using React.js and Django Rest Framework with projects, leads, permissions, and recycle bin.

TECHNICAL SKILLS

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

Frameworks: Django, Django REST Framework, Flutter, Flask, FastAPI, Firebase, Vue.js

AI / ML: Ollama, Hugging Face, RAG, LLM integration

Libraries & Tools: pandas, NumPy, Beautiful Soup, Selenium, Celery, Redis, ClickHouse

Developer Tools: Git, VS Code, Visual Studio, Windsurf, Cursor

EDUCATION

Comsats University | Bachelor of Science in Computer Science Feb 2019 — Feb 2023