

MUHAMMAD WAQAS AZIZ

Full-Stack Developer | Mobile & Web

Lahore, Pakistan | 03087140725 | waqasaziz2553@gmail.com
linkedin.com/in/muhammad-waqas-aziz-a09abb226 | github.com/MohammadWaqasAziz

SUMMARY

Passionate Full-Stack Developer with hands-on experience across the entire stack — from React Native and Flutter mobile apps to React.js, Next.js, and Node.js web applications. Skilled at building scalable, high-performance products with clean architecture, type-safe APIs, and real-time features. Experienced with CI/CD pipelines, cloud deployments, and AI integrations. Known for a problem-solving mindset, attention to detail, and delivering quality results in both independent and collaborative environments.

SKILLS

Languages: TypeScript, JavaScript, Python, Kotlin, Dart

Mobile Development: React Native (Expo & CLI), Flutter, Jetpack Compose (Android), SwiftUI (iOS)

Web Development: React.js, Next.js, TanStack Query, Redux, tRPC

Backend: Node.js, Express.js, Fastify.js, REST APIs, WebSockets, Redis

Database: PostgreSQL, MongoDB, MySQL, Firebase, Supabase

Cloud & DevOps: AWS (Lambda, API Gateway, Cognito, S3, Amplify), Serverless, Terraform, Docker, GitHub Actions, EAS

AI & Voice: AI Voice Agents (LiveKit), Prompt Engineering, OpenAI, n8n, Twilio, Calilio

Version Control: Git, GitHub, Bitbucket

EXPERIENCE

KavTech Solutions

Lahore, Pakistan

Software Engineer

10/2025 – Present

- Built and maintained cross-platform mobile applications using React Native (Expo) with real-time calling features via Twilio, CI/CD pipelines through Expo Application Services (EAS), and server state management with TanStack Query.
- Developed and maintained web applications using React.js, Next.js, and TypeScript; contributed to backend development with Fastify and REST API integrations.
- Set up automated build and deployment pipelines on AWS Amplify with GitHub Actions for both web and mobile products.
- Worked on Rainbow, an AI voice outreach platform — built the Next.js frontend, AWS serverless APIs, AI voice agents with Twilio and Calilio telephony, and a contact-center agent UI; wrote and tested prompts for the voice bots.

Devflowv

Lahore, Pakistan

Software Engineer

03/2025 – 10/2025

- Contributed to cross-platform mobile apps (React Native, Kotlin, Flutter) and web apps (React.js, Next.js, Node.js) with real-time features using Sockets and WebSockets.
- Managed backend communication and caching with Redis and Docker; responsible for feature implementation, app deployment, and cross-functional team collaboration.

Pentaloop

Lahore, Pakistan

Associate Software Engineer

04/2024 – 03/2025

- Developed the Voice Cloning app for Android and iOS using React Native, handling feature implementation, UI/UX enhancements, Firebase integration, in-app purchases, and Google Ads.
- Collaborated with cross-functional teams to ensure quality, performance, and smooth releases on the Play Store and App Store.

PROJECTS

Rainbow

AI Voice Outreach Platform · Healthcare

CRM Dashboard: app.memoryarcs.com | Contact Center: contact-center.memoryarcs.com

- Multi-tenant platform that automates patient and pharmacy outreach using AI voice agents and SMS, with a web dashboard for campaigns, call management and analytics, and a Twilio Flex contact-center app where human agents take over live calls. Contributed across the web app, cloud backend, AI voice agents, contact center, and prompt engineering.

Spoolip

AI Agent Web & Mobile Application · Full-Stack

- Web: Built with React.js frontend and Fastify REST API backend, PostgreSQL primary database, Redis caching, and WebSockets for real-time one-to-one and group communication.
- Mobile: Built as a React Native app featuring real-time chat with Socket.io, Redux state management, and Firebase push notifications.
- Integrations: Google Authentication, Google Drive, Shopify, Outlook, Google Analytics; AI Agent (RAG-based chatbot) implemented with n8n; file, photo, and voice messaging; Sentry for crash monitoring.

SOS App

AI-Agent Emergency Chat · Full-Stack (Web + Mobile)

- Mobile: React Native CLI app with real-time agent-client communication via Socket.io, Redux state management, Firebase push notifications, Google Maps live location tracking, and AWS S3 for secure profile storage.
- Web: Companion web dashboard for agent monitoring with real-time Socket.io events, live client location display, and alarm trigger management for emergency situations.

Voice Cloning

React Native & Web Full-Stack App

- Mobile app (React Native) enabling real-time voice-to-voice and text-to-voice conversion with Firebase Analytics, Remote Config, Crashlytics, Push Notifications, in-app subscriptions, and Google AdMob monetization.
- Web portal for voice management and account settings built with React.js and Node.js backend, sharing the same Firebase and API layer as the mobile app.

Datability

Full-Stack Fintech Application (Web + Mobile)

- Web: Next.js App Router with end-to-end type-safe APIs via tRPC, Supabase for auth and database, shared TypeScript schemas, full SSR performance, PaySafe for one-time and recurring payments, FinGoal APIs for card and bank account management.
- Mobile: Android (Jetpack Compose) and iOS (SwiftUI) apps with the same payment and financial management features, clean architecture, and secure API handling.

Gesture Decode System

github.com/MohammadWaqasAziz/Gesture_Decode_System

LSTM Model · Web Application

- Designed and implemented a real-time gesture recognition web application using TensorFlow, Keras, MediaPipe, LSTM, and dense neural network layers for feature extraction, sequence modeling, and gesture classification.
- Focused on efficient model training, low-latency inference, and smooth UX.

EDUCATION

Bachelor of Computer Science

11/2020 – 07/2024

Government College University Lahore

GPA: 3.17 / 4.0

- **Courses:** Web Programming, Software Engineering, Data Warehouse Management, App Development, Machine Learning