

# Muzammal Rafique (Mobile Engineer)

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## Skills

Flutter | Dart | React Native | Redux (Toolkit, Thunk, Saga) | BLoC | GetX | Provider | Context API | Websockets | Firebase | Twilio | Stripe | Google Maps | Mapbox | REST & WebSocket APIs | JWT Authentication | Push Notifications | Localization (Intl, l18) | Axios | Material Design | Tailwind CSS | Styled-Components | Animations | CI/CD | Git | Bitbucket | Github | Android Studio | Xcode | VSCode | Postman | Debugging (Flipper, RN debugger, Flutter DevTools) | Error Handling | Testing (Jest) | OOP | DSA | Design Patterns (Dart, JavaScript) | English, Urdu

## Experience

Mobile App Developer	<a href="#">Helpicon, Sweden, Europe (Remote)</a>	04/2024 – Present
<ul style="list-style-type: none"><li>Led the development of <b>Helpicon Mobile App</b> from scratch, ensuring stability with <b>React Native</b>, <b>Twilio</b>, and <b>API integrations</b>.</li><li>Designed a modular architecture, optimizing <b>reusability</b>, <b>state management (Redux Toolkit)</b>, and <b>API handling</b> for scalability.</li><li>Reviewed, refactored, and optimized code, enforcing best practices, merging PRs, and mentoring developers.</li><li>Developed <b>real-time task updates</b> in lists as well as shown on the <b>map</b> with the <b>geofencing</b>, <b>push notifications</b></li><li>Built <b>onboarding flows</b>, <b>video tutorials</b>, and <b>seamless navigation</b> to improve user retention and <b>secure payments</b> for enhanced user experience.</li><li>Integrated <b>CI/CD pipelines</b>, <b>automated testing</b>, and <b>continuous deployment</b> for efficient releases.</li><li><b>Managed App Store &amp; Play Store deployment</b>, handling provisioning, certificates, and releases.</li><li>Developed <b>NativeModules</b> for platform-specific enhancements on <b>iOS &amp; Android</b>.</li></ul>		
Senior Mobile App Developer	<a href="#">Green Origin, Pakistan</a>	05/2021 – 11/2024
<ul style="list-style-type: none"><li>Led the development of <b>five mobile applications</b> for emergency response, IoT, and field management, enhancing efficiency for thousands of users.</li><li><b>DHA &amp; Rescue 1122 Emergency Response Apps</b> (3 each): Developed <b>Resident</b>, <b>Driver</b>, and <b>Attendance apps</b> for <b>real-time emergency management</b>. Users could report medical, road accidents, or robbery emergencies, triggering location-based <b>driver notifications</b>, <b>live chat (WebSockets)</b>, <b>real-time tracking</b>, <b>ETA updates</b>, and <b>incident recording with images</b>.</li><li><b>Expanded DHA App functionalities</b>: Added <b>property listings</b>, <b>ads</b>, and <b>utility management</b> (water, electricity, internet bill payments).</li><li>Designed a scalable <b>Emergency Response Management System (ERMS)</b> to streamline operations.</li><li><b>Built Climate IQ (IoT-based AC control app)</b>: Integrated <b>ESP32 device provisioning</b>, <b>Wi-Fi management</b>, and <b>automated scheduling</b>, optimizing energy usage for large organizations.</li><li><b>Developed Jazz Pakistan Field Form Management App</b>: Integrated <b>geo-fencing</b>, <b>task-based form submissions</b>, and <b>Google ML Kit-powered face recognition</b> for attendance verification.</li><li><b>Integrated Google Maps</b>, <b>Mapbox</b>, <b>Firebase (notifications)</b>, and <b>WebSockets</b>, enhancing app functionality and real-time interactions.</li></ul>		
Software Engineer	<a href="#">Megaverse Inc. Pakistan</a>	04/2020 - 05/2021
<ul style="list-style-type: none"><li><b>Bahria Plus Property App</b>: Played a critical role in the development of Pakistan's premier real estate app for Bahria Town projects, delivering map-based property browsing and enhanced user interactions.</li><li><b>Features Implemented</b>: Integrated <b>GoogleMap</b> for property searches by location, <b>cached_network_image</b> for optimized image loading, <b>infinite scrolling</b> and <b>lazy loading</b> for smooth browsing, <b>interactive map filters</b>, and <b>Flutter mobile ads</b>.</li><li><b>Technologies Used</b>: Employed <b>HTTP</b> for efficient API management and <b>GetX</b> for state management, ensuring a responsive user interface.</li><li><b>SuperHero eSIM App</b>: Developed and maintained a responsive eSIM app in Flutter, enabling travelers to access high-speed internet across 200+ countries without roaming fees.</li><li><b>Technologies Used</b>: <b>GetX</b> and <b>Provider</b> for state management, <b>API integration</b> using <b>HTTP</b> and <b>Path Provider</b> for data handling, Local storage, and <b>Webview Flutter</b> for seamless in-app browsing.</li><li><b>Key Integrations</b>: Integrated <b>Stripe</b> for secure payments, along with <b>Google</b> and <b>Apple</b> authentication to streamline user access.</li></ul>		
Software Engineer	<a href="#">Digital Aimz</a>	05/2019 - 04/2020
<ul style="list-style-type: none"><li>Led the development of <b>Ting Hotspot &amp; Ting Me</b>, key apps in the <b>Ting ecosystem</b>, enabling users to <b>document and share gear-related experiences</b> globally.</li><li>Built <b>Ting Hotspot</b>, allowing businesses to join the Ting network as <b>interactive hotspots</b>. Integrated <b>NFC scanning for gear check-ins</b>, <b>third-party APIs</b>, and a <b>seamless UI</b> for user-friendly interactions.</li><li>Developed <b>Ting Me</b>, a <b>location-based platform</b> for users to <b>track and share gear journeys</b>, integrating <b>Google Maps</b>, <b>media capture</b>, and <b>API connections</b> for a dynamic user experience.</li><li>Implemented <b>Flutter</b>, <b>GetX (state management)</b>, <b>Dio (API handling)</b>, <b>NFC integrations</b>, and <b>Provider</b>, ensuring <b>performance</b>, <b>scalability</b>, and <b>smooth app interactions</b>.</li><li>Enhanced <b>user engagement</b> with <b>location-based features</b>, <b>immersive Hotspot interactions</b>, and <b>NFC-enabled functionalities</b>, fostering a <b>global user community</b>.</li></ul>		

## Education

Bachelor of Science	<a href="#">COMSATS University</a>	Lahore, Punjab, Pakistan
<ul style="list-style-type: none"><li>Major in Computer Science ( Software Engineering )</li></ul>		

## Additional Projects

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- FashionXotics [Web](#) / [Mobile App](#) – Developed a Flutter & Next.js e-commerce platform using GetX, Redux Toolkit, Stripe payments, and cached images, with infinite scroll, server-side rendering, and advanced filtering for optimal UX.
- [Res Ihop](#) – Developed a React Native ride-sharing app using Redux Toolkit, Formik, Google Maps, and Polylines, enabling drivers and passengers to connect automatically for daily commutes and city-to-city trips, reducing carbon emissions.
- [PakQue Kids App](#) – Designed an interactive educational app with Google Maps, text-to-speech, quizzes, and performance tracking, using Flutter & Strapi for backend integration.
- [ChezChef Web](#) – Designed a recipe platform using React, Redux, and Stripe payments, delivering an intuitive, Figma-designed UI.
- [Azure Cloak VPN](#) – Built a VPN platform with Node.js & WireGuard integration for secure connectivity and Paid version using Stripe.
- [Fawkes Games](#) – Contributed to the design and development of Fawkes games platform built using ReactJs, Context API, Axios and MUI.
- [FitnessPal](#) – Designed and developed the flow of a Gym platform for Trainer, Trainee and Admin. To sell courses, buy courses and buy/sell different Supplements. Built in ReactJs with Redux Toolkit, Stripe payment, WebSockets for Chats and MUI for styles.
- [Hanti App](#) – Contributed to a React Native Hotel booking and management app like AirBnB, integrating Redux Toolkit and React Native Paper for a responsive UI.
- [Royal Food App](#) – Developed a food ordering app using React Native, Google Maps, and Redux Toolkit, featuring seamless navigation and Tailwind CSS styling.

## Certificates & Mentorships

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- [Introduction to Frontend Development](#) By Meta
- [Introduction to Backend Development](#) By Meta
- **Coding Bootcamp Mentor:** responsible for mentoring and giving career advice to junior batch students.
- **Guided and trained Junior devs:** during my tenure at Green Origins, focusing on programming best practices and project collaboration, conducting code reviews, PR merges, and project structuring to maintain clean, scalable codebases.

## Others

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- Developed a **strong foundation** in Mobile and web development through **self-study** and **practical projects**, continuously **enhancing** my technical abilities.
- Completed many **freelance projects** independently and in **teams**, delivering high-quality **mobile** and **web** applications across various domains.