Muhammad Idrees

Karachi, PK | P: +92 332 3774447 | midrees097@gmail.com | www.muhammadidrees.com

Skills: Flutter, React.js, Next.js, Node.js, Python, AWS, Docker, Firebase, MongoDB, CI/CD, Agile

ABOUT

I'm a full-stack mobile engineer with **nearly 6 years of professional experience** delivering high-impact applications across fintech, logistics, healthcare technology, and industrial domains. My core expertise is in **Flutter**, where I've led teams, architected offline-first systems, and shipped scalable cross-platform apps used by enterprises and startups alike.

Currently, I lead mobile development at **Makula**, a German product company, and have previously contributed to projects such as **Oraan**, **Shipox**, **Humwell**, and **Wasabih** through my role at VentureDive. Beyond Flutter, I work across **React.js, Node.js, and AWS**, and I'm passionate about building clean code, user-centric products, and exploring innovative R&D-driven solutions.

WORK EXPERIENCE

Makula Makula Technology GmbH   Germany, Remote
Software Engineer   Jun 2024 - Present

- Lead the **mobile development team** for an OEM-focused field service app, introducing **Agile processes** to improve delivery speed and collaboration.
- Architected and implemented **offline-first data sync**, modular design patterns, and API integrations using **Flutter** and **React**.
- Collaborated with product, design, and backend teams to deliver **AI-assisted inspection features.**

VentureDive   Karchi, PK
Senior Software Engineer   Jan 2024 – Jun 2024
Software Engineer   Oct 2021 – Dec 2023

- Promoted from Software Engineer to Senior for consistently delivering high-impact solutions across **fintech, logistics, and community platforms.**
- Built **white-label Flutter architectures** adopted across multiple client projects, reducing time-to-market.
- Automated CI/CD pipelines with **Docker, SonarQube, and AWS**, improving code quality and reducing bugs.
- Delivered end-to-end solutions for products such as **Oraan (Fintech), Shipox (Logistics), and Wasabih (Community Networking)**.
- Mentored junior engineers and drove knowledge-sharing sessions to uplift team capability.

Codelabs Private Limited   Karachi, PK
Flutter Developer   Apr 2020 - Sep 2021

- Developed and maintained **HumWell (Telemedicine)** and **The Darzee (Tailoring app)** for iOS and Android.
- Built a **WebRTC prototype SDK** in Flutter to support live video communication features.
- Implemented scalable state management patterns **(BLoC, Provider, MVC)** to improve maintainability and performance.

Orange Room Digital   Karachi, PK
Mobile Developer (MTO Trainee)   Dec 2019 - Mar 2020

- Developed a **B2B sales application** for Mövenpick UAE distributors using Flutter, deployed on iOS and Android.
- Provided development support for existing projects, including an **HBL Funds mobile app** made with **Ionic**.

EDUCATION

FAST National University   Karachi, PK
MS. Data Science   Aug 2020 - Jan 2023
Thesis: Author Identification using Vision Transformer

Mehran University of Engineering and Technology   Jamshoro, PK
BE. Computer Systems Engineering   Jan 2016 - Dec 2019
Thesis: Blockchain-based Decentralized E-Voting System