

Muhammad Faizan

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Summary — Full Stack Web Engineer with 2.5+ years of experience in developing scalable web applications using the MERN stack (MongoDB, Express.js, React, Node.js), GraphQL, and REST APIs. Proficient in Google Cloud Platform (GCP) deployment, front-end development, backend architecture, and API integration. Skilled in performance optimization, debugging, and agile development to deliver high-quality, efficient solutions.

Experience

BitSol Technologies, Islamabad

Oct 2022 – Present

Full Stack Web Engineer

- Developed and maintained web applications with React.js and MUI, improving user engagement by 30%.
 - Wrote 500+ unit tests with Jest and RTL, reducing production bugs by 40%.
 - Optimized back-end services using Node.js, GraphQL, and REST APIs, improving API response times by 50%.
 - Leveraged GCP (Cloud Functions, Firestore, Cloud Storage) for high-availability deployment with 99.99% uptime.
 - Integrated Firebase Authentication and OAuth, streamlining authentication for 10,000+ users.
 - Improved performance using Redis cache, reducing page load times by 70%.
 - Implemented Elasticsearch, improving real-time search performance by 60%.
 - Managed GitHub version control, automated CI/CD pipelines, reducing deployment time by 40%.
 - Integrated third-party LMS systems (SCORM, xAPI, cmi5), increasing user engagement by 25%.
- Undergoing System Modernization
- Migrating to microservice-based NestJS back-end to optimize performance and scalability.
 - Transitioning from Cloud Functions to Cloud Run for serverless architecture, reducing costs by 20% and enhancing scalability.
 - Using GraphQL Federation Gateway to seamlessly combine multiple GraphQL endpoints.
 - Migrating database from Firestore to PostgreSQL relational DB to increase search and filtering performance.
 - Implementing Sequelize ORM to streamline database interaction and improve maintainability.
 - Redesigning database schema and normalizing data for better structure and performance.
 - Moving to a mono-repo setup to deploy and manage micro services more effectively.

ORPAI - Optimal Route Planning through AI

Mar 2021 – Sept 2022

Intern Full Stack Mobile Developer

- Developed a mobile app using React Native as part of a research project to optimize delivery route planning.
- Designed and implemented the front-end with ReactJS, improving app responsiveness by 40% and reducing load times.
- Built back-end API with Node.js and Express to manage consignments, ensuring real-time updates with a 99.9% uptime.
- Integrated Firebase for secure authentication and real-time database management, reducing login failures by 30%.
- Implemented Google Maps APIs (Geocoding, Geolocation, Directions, Distance Matrix) to optimize route planning, reducing average delivery time by 25%.
- Optimized app performance and reliability, decreasing crash rates by 35% and enhancing user navigation.

Education

Quaid-e-Azam University

Oct 2018 - July 2022

Bachelor of Science in Computer Science

Skills

Stack MERN, TypeScript, React Native

Cloud Google Cloud, Vercel

CI/CD GitHub Actions, CircleCI

UI/UX MUI, Tailwind CSS, Bootstrap

Testing RTL, Jest, Chai, Mocha,

Storybook

APIs GraphQL, REST

Auth OAuth, Firebase, SAML SSO

Tools Webpack, ESLint, Postman

Databases Firestore, PostgreSQL, MySQL, ElasticSearch, MongoDB

Projects

EduTrack - LMS Web App

- Learner progress tracking with SCORM & xAPI.
- **Tech Stack:** MERN, GraphQL, Firebase, ADL, SCORM

QuickShip - Web Portal

- Admin dashboard to track consignment deliveries.
- **Tech Stack:** MERN, JWT, Firestore, Google MAP APIs

BuyNGo - Shopping Website

- E-commerce site with auth and payment integration.
- **Tech Stack:** MERN, Tailwind, GraphQL, PgSQL, Auth0

Harmonized - Matrimonial App

- Mobile App with partner matching and real-time chat.
- **Tech Stack:** React Native, Node.js, Socket.io, MongoDB