

# MUHAMMAD FAIZAN

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## SUMMARY

Full Stack Web Engineer with 2.5+ years of experience in building web applications using the MERN stack, GraphQL, and REST APIs. Skilled in deploying on Google Cloud Platform (GCP) for scalability and high availability. Strong in front-end design, back-end development, problem-solving, and performance optimization. Eager to contribute to innovative projects in a dynamic tech environment.

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## WORK EXPERIENCE

### Full Stack Web Engineer | BitSol Technolgies

Oct 2022 - Present

- Developed and maintained responsive, user-friendly web applications using React.js and Material-UI (MUI), improving user engagement by 30% through enhanced UI/UX design.
- Wrote and executed over 500 unit tests with Jest and RTL, resulting in a 40% reduction in production bugs and ensuring code reliability.
- Built and optimized back-end services with Node.js, utilizing GraphQL and RESTful APIs, which led to a 50% improvement in API response times.
- Leveraged Google Cloud Platform (GCP) services, including Cloud Functions, Firestore, and Cloud Storage, to deploy applications with 99.99% uptime and scalability.
- Integrated Firebase Authentication and OAuth, streamlining user authentication for over 10,000 active users with minimal friction.
- Utilized Redis cache to improve application performance, reducing page load times by up to 70% for frequently accessed data.
- Implemented Elasticsearch to enable fast, real-time search for large datasets, resulting in a 60% improvement in search performance.
- Managed version control and collaboration through GitHub, automating CI/CD pipelines, which decreased deployment time by 40% and improved release frequency.
- Integrated third-party LMS systems such as SCORM, xAPI, and cmi5, boosting user engagement with learning materials by 25%.

#### Currently Revamping Application:

- Transitioning to Cloud Run for serverless architecture, reducing operational costs by 20% while enhancing scalability.
- Migrating the database to PostgreSQL, improving data query performance by 50% and ensuring more efficient data storage.
- Adopting NestJS for back-end development, resulting in a 30% increase in team productivity due to its modular architecture.
- Implementing GraphQL Federation to integrate microservices seamlessly, improving API flexibility and reducing overhead by 40%.

### Intern Full Stack Mobile Developer | ORPAI - Optimal Route Planning through AI

June 2021 - June 2022

- Collaborated on a real-world project with TCS (Tranzum Courier Service) in Pakistan, developing a mobile app to help riders view their daily consignments and delivery routes.
- Designed and developed the front-end of the application using React.js, ensuring a smooth and responsive user experience for riders to view deliveries and their routes.

- Built the back-end with Node.js and Express, creating APIs to manage consignments, rider data, and real-time delivery updates.
- Integrated Firebase for database management and authentication, enabling secure user sign-ups, logins, and data storage.
- Developed the mobile app UI using React Native, ensuring cross-platform compatibility for both iOS and Android devices.
- Worked with Google Maps APIs (including Geocoding API, Geolocation API, Directions API, and Distance Matrix API) to implement features such as route planning, distance calculations, and real-time location tracking for deliveries.
- Enhanced app performance and reliability, allowing riders to easily track deliveries, plan their routes, and optimize their workday.

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EDUCATION	Bachelor of Science in Computer Science	Oct 2018 - June 2022
	Quaid-i-Azam University, Islamabad	
	Intermediate in Computer Science	Jan 2018 - Dec 2018
	FG Liaquat Ali Degree College, Rawalpindi	

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KEY SKILLS	• ReactJS	• Authentication (Firebase, OAuth)
	• Material UI	• GCP Services
	• Node.js	• PostgreSQL
	• Express.js	• MySQL
	• GraphQL	• Elastic Search
	• REST APIs	• Redis
	• Jest, RTL	• GitHub