

# Osama Ehsan Qureshi

[LinkedIn](#) | [GitHub](#)

Location: Islamabad, Pakistan

Email: [osamahsan@gmail.com](mailto:osamahsan@gmail.com) | Mobile: +92 303 5866788

## FULL STACK DEVELOPER

I am a seasoned Full-Stack Developer with **6+ years of experience** crafting robust and scalable web applications. Proficient in the **MERN stack, NextJS, NestJS, SQL databases, and Golang**. Passionate about building innovative SaaS solutions from inception to deployment. Skilled in handling big data streams using Kafka.

## TECHNICAL SKILLS

<b>Languages</b>	: JavaScript, Python, GoLang, HTML, CSS
<b>Frameworks</b>	: NextJS, NestJS, ReactJS, ExpressJS, NodeJS, Gin, Socket.io, FastAPI
<b>Libraries</b>	: Supabase, ShadCN, MaterialUI, TailwindCSS, Redux, Redux-Thunk, React Router, Zustand, Lodash
<b>Databases</b>	: PostgreSQL, MySQL, MongoDB, Redis
<b>Architecture</b>	: Monolith Architecture, Micro-services Architecture, pnpm / yarn workspaces
<b>Other skills</b>	: GraphQL, Stripe, Kafka, Redis pub-sub, BullJS, AWS SQS, AWS SNS, Sanity CMS

## EXPERIENCE

### Senior Software Engineer (Team lead)

Sarmaaya Financials Pvt. Ltd.

June 2023 – Present  
Islamabad, Pakistan

As the Lead Software Engineer, I spearhead a team of frontend and backend engineers in the migration of investment management tools from a custom PHP framework to the MERN stack, leveraging the Next.js 14.2 app router for the frontend and Node.js for the backend. My primary responsibilities include architecting and designing the system to enhance functionality and user experience.

Key accomplishments in this role include:

- **System Architecture and Design:** Played a pivotal role in the architecture and system design, ensuring robust and scalable solutions.
- **Real-Time Data Integration:** Implemented Socket.io for real-time stock price updates, significantly improving user engagement and satisfaction.
- **High-Throughput Messaging:** Utilized Kafka for high-throughput messaging to trigger real-time stock price alerts, ensuring users receive timely and accurate information.
- **Job Scheduling:** Employed BullJS to schedule and manage jobs, keeping user portfolios current and accurate.
- Utilized full capabilities of NextJS, including server actions, ISR, SSG, SSR, and service workers to ensure a smooth user experience.

### React / React Native Developer

Total Info-Tech Pvt. Ltd.

April 2022 – June 2023  
Remote

Primarily worked on migrating a Magento E-Commerce store to ReactJS storefront using "PWA Studio" framework. The framework provides "Headless" connection of Magento store to ReactJS frontend via GraphQL API. I was responsible to override VeniaUI default theme provided by Adobe to match our production site. Did this project from scratch till delivery. I was also responsible for maintaining and adding additional features to the React Native app.

### FullStack Developer

iPlex Pvt. Ltd.

Feb 2021 – Dec 2022  
Islamabad, Pakistan

- Develop responsive UI's in both React and React Native using styled-components and MaterialUI/AntDesign.
- State management using Context API and Redux thunk.
- Integration with REST API's and/or GraphQL backend.
- Integration of other third party services like Firebase, Algolia, Contentful etc.
- Develop fast and optimised apps using modern frameworks of React like Gatsby.
- Maintained backend in GraphQL, did modifications based on requirements.
- Database optimizations
- Integrated payment gateways and subscription models

**Network Operations Center Engineer**  
*Nokia-(Telenor Pakistan Project)*

Dec 2018 – Oct 2020  
Islamabad, Pakistan

- Alarm Monitoring of Telenor RAN and Core Network.
- Troubleshooting of issues and escalations to the respective teams.
- Taking the follow up of activities related to RAN and core network.
- Real time monitoring of Telenor sites, particularly the sites having dependencies.
- Handling and analysing all planned and unplanned network outages.
- Keeping the follow up of different network activities like 3G/4G/DC upgradation and sectorization etc.
- Monitoring of IT servers and services.
- Was responsible to perform all the relevant post checks after the activities and inform the BO teams or vendors if the services are not up to the mark.

## EDUCATION

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**COMSATS University, Islamabad**  
*Bachelors of Science in Electrical Engineering*

Islamabad, Pakistan  
Sep 2014 – June 2018

## PROJECTS

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**Zar by Sarmaaya**      *NextJS, ExpressJS, PostgreSQL, Redis, BullJS, Typescript, Socket.io, Apache Kafka*

**Portfolio Tracking Tool for the Pakistani Stock Market, Mutual Funds, Forex, and Commodities**

**Full-Stack Developer & Architect:** Designed and developed a comprehensive portfolio tracking tool from scratch, enabling users to manage and track multiple investment portfolios across asset types, including stocks, mutual funds, forex, and commodities.

Added features to provide users with an overview of accumulative profits and cash balance, consolidating all investments in one place for seamless monitoring.

Integrated real-time data streams to deliver up-to-date market information, including company announcements for invested companies.

Built a dynamic watchlist with real-time alerts based on user-defined conditions, such as price or volume thresholds, ensuring timely notifications for critical market movements.

Using Next.js 15 (App Router) for the front-end and ExpressJS for the back-end, ensuring a robust and scalable application.

Leveraged Bull.js for efficient cron job scheduling and Apache Kafka for processing and analyzing real-time socket streams from data providers, ensuring minimal latency in data processing and alert triggers.

Designed the entire system, ensuring optimal performance, scalability, and reliability to handle real-time financial data and user interactions.

This project showcases my expertise in full-stack development, real-time data processing, and system architecture, with a focus on delivering user-centric financial solutions.

**Yoga International**      *GatsbyJS, ReactJS, React Native, GraphQL, ExpressJS, PostgreSQL, Contentful, Algolia*

Yoga International is a comprehensive online platform that offers a wide range of resources for yoga practitioners of all levels. The site provides access to thousands of on-demand yoga classes, workshops, and courses led by world-class instructors. With an emphasis on holistic wellness, it also features articles, podcasts, and videos on meditation, breathwork, and mindfulness. Yoga International aims to help people deepen their practice and improve overall well-being through accessible, high-quality content.

**TotalTools PWA**      *PWA Studio, ReactJS, React Native, GraphQL, Elastic Search*

I was responsible for migrating the Total Tools Australia website from a Magento-based store to a Progressive Web App (PWA) using React and GraphQL APIs. The project involved leveraging Magento's backend while creating a fast, responsive PWA frontend using PWA Studio. I implemented a service worker to enable the app to handle orders offline, ensuring a seamless user experience even with intermittent network connectivity.

## CERTIFICATIONS

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- Certified React Developer by the HackerRank
- Certified by Coursera on Convolutional Neural Networks
- Certified by Coursera on AI for Everyone