

# Osama Khan

## MERN | Nest/Node.js JS Developer

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

### Summary

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I am a highly skilled MERN, Node.js, and Nest.js developer with 2+ years of industrial experience, currently working at App In-Snap. I specialize in backend development, utilizing various databases such as PostgreSQL, MySQL, MongoDB, and MsSql. My focus is on building scalable and responsive web applications, with a strong emphasis on API integration. I am committed to contributing to the thriving tech industry, embracing new challenges, and seeking continuous professional growth.

### Education

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**Bachelors in Computer Science**

Bahria University Islamabad Campus

2019 – 2023

### Experience:

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**MERN Developer | App In Snap | Islamabad, Pakistan**

May 2023 - Present

- Designed, developed, and maintained robust backend systems using Node.js/Nest.js and Express, integrating REST and SOAP APIs.
- Analyzed complex system specifications to determine requirements and improve existing programs.
- Proactively identified and solved technical challenges, ensuring system performance and scalability.
- Worked extensively with Node.js, Express Framework, MongoDB, MySQL, MSSQL, and PostgreSQL for backend development.
- Implemented authentication using JSON Web Tokens (JWT) and MongoDB, MySQL, MSSQL, and PostgreSQL for secure data management.
- Leveraged socket-based communication for real-time features and updates in applications.
- Collaborated with Git, GitHub, and Microsoft Azure for version control and cloud-based deployment.

**MERN Developer | Freelance | Remote**

Dec 2022 - Present

- As a Freelancer, I completed multiple projects in React and Node/Nest with MongoDB. I'm skilled in adapting to client needs, managing timelines, and delivering high-quality, scalable solutions
- Integrated and optimized REST APIs using fetch, Axios, when necessary.

## Skills:

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- HTML/HTML5, CSS/SCSS, Tailwind CSS
- JavaScript (ES5/ES6), React JS
- API Integration (Fetch/Axios).
- TypeScript.
- Linux.
- Node.js, Express.js, Nest.js.
- REST/SOAP APIs, WebSocket, Socket.io
- JWT, OAuth.
- MongoDB, PostgreSQL, MySQL, MSSQL
- TypeORM, Sequelize ORM, Prisma ORM
- Payment gateways (Stripe, PayPal, Zindigi :Z-Connect Apis)
- Microservices, Redis caching.
- FCM
- Background jobs, Cron jobs
- API rate limiting, security (CORS, Helmet)
- Joi/Validator for data validation
- Git, GitHub, Netlify, Azure
- CI/CD with Azure DevOps, GitHub Actions

## Projects:

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### Xtreme Gym App

Created an admin and client portal for managing profiles, workout plans, meal plan subscriptions, charts, statuses, a chat application, and AI-generated workout and meal plans. They integrated APIs for ChatGPT, Stripe, Calendly, Google OAuth, and FCM for web-based Notifications while developing the backend for the web application

### NCS (Railway Pakistan)

Contributed to the backend development for the NCS Railway project. Automated ticketing and management system for trains, coaches, seats, quota, timing, fare, and report management. Developed backend APIs to enable seamless interaction between the frontend and backend systems. Worked on front-end panels, collaborating with the design team to create a visually appealing and responsive user interface.

### JS Wall

A banking sector project currently being used by JS Bank, featuring various modules designed specifically for security purposes for each employee.

### Organization Health Solutions

An industrial project with live surveys for company individuals, offering three types of surveys: start, mid, and end, and gathering feedback and reviews. Labels and inputs are dynamically handled across multiple forms in the surveys.

### CMS - Invoice Management System

Developed a comprehensive system for managing projects, projects timeline, clients, employees, invoicing, billing, assets, leave, health insurance and attendance.

### HLP

Developed the HLP (Hotel Management System) backend. Managed resources, expenses, and budgeting, and provided a comparison feature for hotels. Collaborated with front-end developers to integrate the backend APIs into the hotel management system panels, ensuring smooth data flow and functionality.

### J-ACE

J-ACE is a banking system for JS bank to deliver remittances to beneficiary doorstep. the system has a portal for banking officers to make, verify, and dispatch requests and a mobile app for the rider to pick up cash, perform VBS, and deliver at the doorstep. My role in this project as project team lead was gathering requirements from the client and building the

backend APIs in node with typescript using Oracle database and integrating third party APIs to transfer amount and fetch remittances data.

### **WHATSAPP CHAT BOTS**

As a backend developer, I worked on making WhatsApp chatbots to automate the system. Some of my developed bots are Chatbot for Punjab excise and taxation to facilitate customers to get information using WhatsApp. Chatbot for Gulburg Housing Society where residents can fire a complaint to management using WhatsApp. Chatbot for Islamabad International Airport to facilitate passengers to get information about the airport using WhatsApp. Customer support chatbot for a vending machines company.

### **EU-Studio**

Created a music player Backend similar to Spotify with authentication, playlists, albums, categories, premium accounts, and room creation features

### **HEC Attestation**

Developed an online platform for degree attestation starting from universities POC to HEC administration, utilizing blockchain data.

### **RAHPER**

Developed the backend in Node.js for the Rahper ride-sharing app. Integrated Google Maps for location services and utilized sockets for real-time requests, rides, and chat management. Worked on frontend panels, implementing the user interface and ensuring a smooth user experience. Developed and integrated APIs for seamless communication between the frontend and backend components.

### **Farmkar App/Admin Portal**

Developed a project for rural areas connecting farmers, lenders, and customers for 00 equipment import 02 export and related service.

### **Autocar**

Website and app for listing automobile parts Includes an admin portal for management and proper cash flow. Quotations added from website and app that are shown in the portal.

### **MeeramTech**

Developed App and web portal for a Huawei Authorized Service Centre App.

### **MSAFA**

(E-commerce store for Canada)

Website for customers and Admin Portal. Integrated payment APIs such as Stripe.