

Hashim Baig Mogal

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PROFESSIONAL SUMMARY

Backend Engineer with experience in designing and developing scalable server-side applications using Node.js, Express.js, MySQL, and MongoDB. Proficient in building RESTful APIs, optimizing database performance, and implementing security measures like JWT/OAuth. Skilled in debugging, testing, and collaborating with cross-functional teams to deliver solutions for high-traffic environments. Passionate about writing clean, efficient code and staying updated with industry best practices.

SKILLS

Backend: Node.js, Express.js, REST APIs, Microservices, Event-Driven Architecture, GraphQL, WebSockets

Databases: MySQL, Sequelize, MongoDB, Mongoose, Query Optimization

Security: JWT, OAuth, Encryption Techniques

Tools: Git, Docker, Postman, Jest

Testing: Unit Testing, Integration Testing

Cloud: AWS

WORK EXPERIENCE

Altariz Solutions Pvt Ltd

Software Engineer

Jan 2023 - Present

- Designed and developed server-side applications using Node.js, Express.js and AWS improving system reliability and performance.
- Built RESTful APIs, enabling seamless communication between frontend and backend systems.
- Optimized MySQL and MongoDB schemas and queries, achieving faster data retrieval.
- Implemented JWT/OAuth for secure user authentication and authorization, ensuring compliance with industry security standards.
- Conducted code reviews and implemented unit testing with Jest, maintaining compliance with clean code principles.

Altariz Solutions Pvt Ltd

Intern

Sep 2021 - Dec 2022

- Assisted in developing Node.js-based backend services and deployed them on AWS EC2.
- Assisted in troubleshooting and resolving performance issues in production, reducing downtime.
- Participated in Agile ceremonies, including sprint planning and daily standups, ensuring timely delivery of project milestones.

PROJECT EXPERIENCE

Key Projects

RAG-based Q&A Chatbot | [Github](#)

- **Tech Stack:** Node.js, Express.js, MongoDB, Docker
- Built a Retrieval-Augmented Generation (RAG)-based chatbot enabling users to upload documents (PDFs) and query AI-generated responses.
- Developed RESTful APIs for document upload, text preprocessing, and embedding generation using OpenAI's text-embedding-ada-002.
- Stored document metadata in MongoDB, optimizing queries for efficient data retrieval.
- Containerized the application with Docker.

API Management System

- **Tech Stack:** Node.js, Express.js, MySQL
- Designed and deployed a high-performance API gateway.
- Implemented JWT authentication and OAuth protocols, ensuring secure access to services.
- Optimized MySQL queries and database schemas, improving data retrieval efficiency.

Open Source

Classroom-Polling | <https://github.com/CS-461-nils>

- Tech Stack: React
- Refactored application routes in React to improve code organization and maintainability.
- Enhanced readability and ease of updates by splitting complex route logic into smaller, manageable components.

EDUCATION

AVN Institute of Engineering and Technology

Bachelor of Technology, Computer Science and Engineering

Hyderabad, India

Graduation Date: Nov 2023