Vishal Gwala

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PROFESSIONAL SUMMARY

As a Backend Software Engineer with a focus on developing scalable and efficient systems, I specialize in creating robust backend architectures that power seamless user experiences. Currently, I am involved in backend development at Moonstack pvt. ltd. My expertise includes designing scalable databases, implementing secure and efficient APIs, and optimizing performance for high-traffic applications. With a strong foundation in backend technologies and a commitment to continuous improvement, I am dedicated to building reliable systems that meet the evolving needs of users and businesses alike.

TECHNICAL SKILLS

Programming Languages : C/C++, JavaScript, TypeScript
Web Technologies : Node.js, ExpressJS, NestJS, HTML, CSS
API Tools : Git, Swagger, Postman, Socket.io
Databases : MongoDB, MySQL, Redis
Massaging SystemS : Kafka
Others : Encryption, OAuth API, REST APIs, Database Normalization, Aggregation Pipeline, Indexing

EDUCATION

Poornima Institute of Engineering and Technology   **GPA : 8.4**
Bachelor in Technology   *Sept 2020 – May 2024*

EXPERIENCE

Associate Backend Developer | *Moonstack pvt. ltd.*   *May 2024 –Present*

- ∗ Developed RESTful APIs using Node.js and NestJs for various backend services.
- ∗ Designed and implemented MongoDB schemas using Mongoose for handling data models.
- ∗ Implement API endpoints for CRUD operations, improving system performance by optimizing database queries.
- ∗ executed authentication and authorization mechanisms using JWT and Passport.js.

web Developer - Trainee | *AU Future Skill Center*   *Oct 2023 – Jan 2024*

- ∗ Created a strong understanding of Web Development, HTTP protocols, and RESTful APIs.
- ∗ Learned JavaScript, Node.js, Express.js, MongoDB, and other modern frameworks.
- ∗ Gained hands-on experience in HTML, CSS, JavaScript, and jQuery to build responsive and interactive web pages.
- ∗ Worked on small-scale projects, applying best practices in frontend and backend development.

Web Developer - Internship | *Learn & Build*   *July 2023 – Sept 2023*

- ∗ Strengthened my knowledge of JavaScript, HTML,CSS, Bootstrap, and other web technologies.
- ∗ Gained hands-on experience in HTML, CSS, JavaScript, and jQuery.
- ∗ Created interactive UI components, improving user experience and engagement.
- ∗ Explored best coding practices, focusing on clean code and performance optimization.

PROJECTS

Job Portal | *NestJs, Node.js, MongoDb, Mongoose, Microservices, socket.io, Redis*

* Developed a scalable job portal platform using NestJS and MongoDB, enabling seamless job posting, job search, and user interactions for candidates and employers.
* Designed and enforced comprehensive modules such as job posting, user profiles, applications, and subscription, ensuring modularity and ease of future expansion.
* initiated MongoDB schemas for key entities including users, jobs, applications, and companies, optimizing data storage and retrieval for performance and scalability.
* Implemented role-based authentication and authorization using JWT and Passport. Enhanced security with bcrypt, Integrated user registration and login modules with email verification.
* Enhanced security by adding features like password hashing with bcrypt and secure token management, ensuring user data protection.
* Integrated user registration and login modules with email verification, ensuring a robust and secure onboarding process for all platform users.

Social Media Application | *ExpressJs, MySQL , Sequelize , Postman*

* Enable users to create and share various types of content, including photos, videos, and text posts. Implement features for uploading, editing, and deleting content.
* Implement encryption for sensitive data and ensure secure data transmission. Use secure storage practices for user data.
* Implement a search feature that allows users to find friends or family members by name or other identifiers. Optimize search functionality for speed and accuracy.
* Design a scalable backend architecture to handle user growth and high traffic. Consider using cloud services for scalability and performance optimization.

Chat Application | *estJs, Node.js, MongoDb, Mongoose, Microservices, socket.io, Redis*

* Developed a real-time two-way communication system using Socket.io and WebSockets for instant messaging.
* Implemented Redis for message caching and Kafka for event-driven communication, ensuring high scalability and fault tolerance.
* Designed a MongoDB schema to manage users, chat history, and message statuses efficiently.
* Built features like one-on-one chat, group messaging, typing indicators, online status, and message delivery receipts.
* Ensured secure authentication and authorization using JWT and role-based access control (RBAC).

E-Commerce Website | *NestJs, Node.js, MongoDb, Mongoose*

* Created and implemented a scalable database schema for managing products, users, orders, and inventory using MongoDB.
* Developed RESTful APIs for the Blog and Blog-Category, including efficient schema design and validation.
* Built admin APIs for managing team members, including role-based access control (RBAC) and authentication.
* Optimized database queries to enhance performance and ensure seamless data retrieval.
* Implemented error handling and validation mechanisms, improving API reliability and security.