Pritesh Srivastava

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Summary

Summary — Well-qualified Backend Developer familiar with wide range of technologies and expertise in scalable APIs, databases, and cloud infrastructure. Proficient in Node.js, MongoDB, and System Design, ensuring high-performance and secure backend solutions. A problem-solver and collaborative team player, committed to building efficient and robust backend systems, offering 2+ years of related experience .

Skills

Frameworks	Node.js, Express.js, Rest APIs, GraphQL, WebSockets
Databases	MongoDB, Redis, Oracle, Elastic Search, Vector Search
Languages	JavaScript, TypeScript, C++, HTML, CSS, SQL
Tools	Visual Studio, Postman, WebStorm, GitHub, Kafka, Cursor AI, OpenAI, PlantUML
Cloud	AWS, Serverless, Docker, CI/CD Pipelines, Render, Vercel, Replit, Grafana
Core	Object-Oriented Programming, Data Structures and Algorithms, High-Level System Design, Monolithic and Microservices Architecture, Database Management System, AI Agents, Application Performance Monitoring

Experience

Lucres   Apr 2024 – Present
Backend Developer

Backend Development & API Optimization

– Optimized database queries and MongoDB aggregation pipelines, reducing API response time significantly and enhancing system efficiency.
– Followed best API development practices, implementing pagination, server-side caching, payload compression, connection pooling, and request validation for scalable and efficient APIs.
– Built custom logic for XML sitemap generation, enhancing SEO performance across the platform.
– Designed and maintained optimized data models with efficient schema structures to ensure superior performance and scalability

Architecture & System Design

– Leveraged advanced system design concepts such as indexing, pre-pagination strategies, sharding, partitioning, and CDN integration, improving system performance by 70%.
– Architected a scalable chat feature and notification system using Kafka message queues for reliable asynchronous communication.
– Utilized gRPC for microservices communication (core, admin, and orders services), dramatically improving inter-service performance.
– Designed system architecture blueprints using Entity-Relationship Diagrams (ERD) and PlantUML, ensuring well-structured and scalable implementations.
– Integrated ElasticSearch with optimized index mapping, analyzers, tokenization, and Query DSL, achieving highly accurate and performant search results.
– Utilized AWS SDK for seamless PDF generation, downloads, and email delivery, improving document accessibility.

Security & Authentication

– Designed an advanced authentication system incorporating access tokens, refresh tokens, secure cookies, session-based authentication and RSA algorithm for JWT signing, securing user data and access.
– Implemented custom Google Sign-In/Sign-Up functionality without external libraries for enhanced control over the authentication process.
– Developed a comprehensive Role-Based Access Control (RBAC) system for the Admin Microservice, securing sensitive features with permission-based access.
– Implemented application monitoring using Prometheus and Grafana, enabling real-time API performance tracking and early issue detection.

Feature Development & User Engagement

– Implemented social media-like features including Quotes, Reposts, User Tagging, and Save functionality similar to X (Twitter), significantly boosting user engagement and platform interaction.
– Developed a subscription service enabling premium feature access, including payment processing and account management.
– Integrated OpenAI (ChatGPT) for AI-powered automation, enabling auto-generated career details, job descriptions, and content creation.
– Designed nested entities like LinkedIn, allowing users to create and manage company pages while maintaining data isolation.

– Implemented admin activity logging and a report feature to track user and admin actions, improving platform governance.

Automation, Infrastructure & DevOps

– Developed an AI Agent that transforms raw user input into structured data using OpenAI, automating complex database write operations to efficiently build user career profiles.
– Utilized AWS Lambda Functions and Node Cron to schedule and automate critical business processes including experience updates and job post expiration.
– Deployed ElasticSearch on AWS EC2 for development and Elastic Cloud for production, ensuring high availability and fault tolerance.
– Integrated Wati for automated messaging, improving user engagement and communication.

Urban Space   **Dec 2022 – Mar 2024**
Software Engineer

– Upgraded the booking system to include advanced filtering for service types across different appliance categories.
– Developed technician-matching algorithm that reduced service assignment time by 25%.
– Created backend logic for customer review and rating system to improve quality control and optimized database queries that improved overall website response time by 30%.
– Participated in code reviews and testing procedures, helping establish best practices for the development team.

Software Engineer Intern

– Assisted in developing REST APIs for customer service booking system, gaining hands-on experience with Node.js and Express.
– Built Admin dashboard components to display daily service requests and completion statistics and reporting APIs to generate daily and weekly service performance metrics.
– Developed backend logic for notification system to alert customers about appointment confirmations.

Education

ABES Engineering College
Bachelor of Technology — GPA: 7.2
Minors: Operating Systems, Data Structures, Analysis of Algorithms, Software Development, Networking, Databases

Certifications

– freeCodeCamp - Back End Development and APIs — *Link*
– HackerRank - Rest API (Intermediate) — *Link*

Projects

Sampurna Kart (E-Commerce Website)

– Website that is specifically tailored for Sampurna Kart, a reputable appliances repair company.
– It provides a comprehensive online platform to showcase their key services, enabling customers to conveniently access their exceptional appliance repair solutions.
– Designed and developed core backend components, ensuring seamless functionality and an excellent user experience. Handled API calls and validations.
– It provides a comprehensive online platform to showcase their key services, enabling customers to conveniently access their exceptional appliance repair solutions.
Deployed Link

Real-Time Chat Web App

– Developed a real-time chat application using Node.js and Socket.IO to facilitate instant communication between users.
– Designed a responsive and intuitive user interface for seamless user experience.
– Demonstrated proficiency in backend development, event-driven programming, and real-time communication technologies.
Deployed Link *(Due to Render's free tier limitations, the web page may have increased response times.)*