Pritesh Srivastava

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Summary

Summary — A seasoned Backend Engineering wizard with an extensive track record of building, delivering and sustaining, complex, high quality, AI/Machine Learning and system level infrastructure software products. Expert level knowledge in Backend Development, Public/Hybrid clouds and System level Infrastructure development. Vast experience working with Global Engineering teams and Infrastructure solutions.

Skills

Languages	JavaScript, TypeScript, C++, HTML, CSS, SQL
Frameworks	Node.js, Express.js, Nest.js, Rest APIs, GraphQL, gRPC, WebSockets
Databases	MongoDB, Redis, Oracle, PostgreSQL, ClickHouse, Elastic Search, Vector Search
Tools	RabbitMQ, Kafka, OpenAI, Visual Studio, Swagger, WebStorm, GitHub, Cursor AI, CoPilot, Postman, PlantUML
Cloud	AWS, Serverless, Lambda, Docker, CI/CD Pipelines, Render, Vercel, Grafana, Cloudinary, ELK
Core	Object-Oriented Programming, Data Structures and Algorithms, 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 through strategic indexing and pre-pagination techniques, reducing API response time and enhancing system performance by 70%.
– 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

– Architected a scalable chat feature and notification system using RabbitMQ for efficient & reliable asynchronous communication.
– Integrated ElasticSearch with optimized index mapping, analyzers, tokenization, and Query DSL, achieving highly accurate and performant search results.
– 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.
– 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.

Web Rats   May 2022 – Oct 2022
SDE Intern

– Developed and maintained responsive web interfaces using HTML, CSS, and JavaScript for 3 client-facing applications across e-commerce and service domains.
– Built RESTful APIs using Node.js, Express, and MongoDB, enabling seamless CRUD operations and user authentication for multi-tenant platforms.
– Created email notification system using Nodemailer to send automated updates for user sign-ups, purchases, and support tickets.
– Participated in daily Agile stand-ups, sprint reviews, and code reviews; resolved 10+ bugs during QA feedback cycles.

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.)*