

# Pritesh Srivastava

+91 9536962360 — [priteshsrivastava502@gmail.com](mailto:priteshsrivastava502@gmail.com) — [linkedin.com/in/pritesh-srivastava](https://www.linkedin.com/in/pritesh-srivastava) — [github.com/pritesh-55](https://github.com/pritesh-55)

**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

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

## 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.
- Built a DigiLocker verification feature, allowing users to securely verify documents like Aadhaar and mark sheets for credibility.

##### 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

- 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**

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### **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**

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### **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.)