Alok Kumar

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Profile Summary

Software Engineer with 2+ years of experience in building scalable full-stack applications and enterprise systems. Strong expertise in React.js, Next.js, Node.js, REST APIs and backend integrations with SQL-based services. Proven ability to optimize performance, implement robust validations, and deliver reliable, business-critical solutions in agile environments.

Experience

Full-Stack Developer , TCS (PepsiCo.) – Pune, India   Sept 2025 – Present

- Built a scalable Next.js application to process 50MB+ Excel files and 5 lakh+ records without performance issues.
- Implemented Excel parsing and conversion to CSV/XML for high-volume data processing.
- Optimized data fetching and UI rendering to achieve faster loading times and improved user experience for large datasets.

Full-Stack Developer , TCS (M&S) – Pune, India   Nov 2023 – Sept 2025

- Developed a full-stack order management system supporting bulk and single order creation using React.js and Node.js.
- Implemented Excel template uploads with data validation for accurate bulk order processing.
- Wrote unit and API test cases using Mocha and Chai to ensure reliability and reduce production defects.

Projects

High-Volume Discount & Data Processing Platform – PepsiCo

- Built a scalable **Next.js full-stack application** integrated with **SQL Server stored procedures** to process enterprise data efficiently.
- Implemented **Excel upload and download pipelines** handling **50MB+ files and 5 lakh+ records** using memory-efficient processing without crashes.
- Parsed Excel files and converted data into **XML and CSV formats** for bulk database operations and downstream system integration.
- Optimized backend and UI performance to support large datasets with stable pagination, sorting, and responsive user experience.

Order Management Platform – Marks & Spencer (M&S)

- Built a full-stack order management platform supporting bulk and single order processing using React.js and Node.js.
- Implemented Excel template uploads with robust data parsing and validation to ensure accuracy before order creation.
- Enabled bulk order creation, modification, and deletion via Excel uploads, significantly reducing manual operational effort.

Education

B.Tech (Computer Science), University Institute of Engineering and Technology   2019 – 2023 | CGPA: 8.2/10

Skills

Languages: C++, C, Java, JavaScript, TypeScript
Frameworks: React.js, Next.js, Node.js, Express.js, Tailwind CSS, Chai, Mocha, SpringBoot, Rest API
Databases: MongoDB, NoSQl, MySQL, PostgreSQL, Redis
Technologies: Github, Docker, Kubernetes, RabbitMQ, CI/CD, AWS, Vs code