

Saurav Kumar

Backend Engineer (Node.js, TypeScript, MongoDB)

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Summary

Results-oriented Senior Backend Engineer with over 6 years of experience building scalable, high-performance systems using **Node.js, Express.js, MongoDB, Kafka, and Docker**. Proven expertise in breaking down complex business requirements into efficient backend solutions, developing robust RESTful APIs, implementing secure authentication mechanisms, and optimizing data pipelines for speed and reliability. Additionally, **have 2+ years of leadership experience**, managing a team of five developers, providing technical guidance, overseeing project deliverables, and ensuring adherence to best practices and timely execution. Actively delivered **AI/ML proofs of concept**, including machine health prediction using tools such as **Python, RAG and MCP servers**.

Technologies

Backend: Node.js, TypeScript, JavaScript ES6+, Express.js, Next.js, Kafka

Databases MongoDB, MySQL, Redis

DevOps / Cloud: CI/CD, Docker, Jenkins, AWS (EC2, Codepipeline, Elastic Beanstalk, S3), Nginx

Tools: Git, Linux, Automation (MCP Server, n8n) WebSocket, SSE, Puppeteer, PM2

Authentication: OAuth2, SSO, JWT, LDAP

Frontend: HTML, CSS, React.js, Redux

Experience

Senior Software Engineer, Harns Technologies – Mumbai Nov 2020 – Present

- Led the end-to-end architecture and development of **Libsi Markah**, a high-scale e-commerce platform with real-time order tracking, customer segmentation, affiliate logic, and shipment workflows;
- Recognized as **Employee of the Quarter** for driving tech leadership and ownership.
- Developed microservices handling **2M+ users**, leveraging **Node.js, Express, MongoDB** for real-time flows.
- Built affiliate systems combining tracked URLs and coupons, enabling influencer performance scoring via ROI, clicks, coupon usage, and retention.
- Migrated **3M+ active subscriber accounts** with custom scripts and zero downtime.
- Reduced deployment time by **60%** using Docker-based CI/CD pipelines and infrastructure-as-code.
- Improved database performance and API latency by **35%** through advanced indexing and dynamic query optimization.
- Achieved **99.98% uptime** in production using PM2, alerting, and AWS monitoring.

Software Engineer, Mojito Labs – Gurgaon, Jan 2019 – Nov 2020

- Developed resilient Kafka-based pipelines for real-time IoT data ingestion and analytics.
- Architected a custom IoT platform (TCP → Kafka → REST API) for smart mobility solutions.
- Developed real-time telemetry system using Kafka and Node.js handling **100K+** daily device events.
- large-scale migrations, improved API throughput by up to **40%**, and managed production systems
- Engineered Shopify integrations for **1K+** vendors, improving sync and fulfillment speed by 80%.

Education

Jaipur National University Nov 2016 – May 2020

- Bachelor of Technology - BTech, Computer Science