Vishal Gautam

Software Engineer | Scalable Systems | Distributed Computing

Expertise in architecting high-performance, low-latency systems handling > 50,000 events/second for global enterprises. Proven track record of driving performance optimizations resulting in > 40% latency reduction and 50% bundle size decrease. Led full-stack development and technical strategy for complex applications using React, TypeScript, Node.js, and GraphQL. Product-minded engineer focused on leveraging modern tech to solve complex scalability and real-time data challenges.

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript (Node.js), GraphQL, SQL, Python*

Frontend: React, Next.js, Redux, D3.js, WebRTC, WebSockets

Backend: Node.js, Next.js API, RESTful APIs, GraphQL (Apollo Server)

Databases: PostgreSQL, MongoDB, Redis

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS), Docker, CI/CD (GitHub Actions), Serverless

Testing: Jest, Cypress, Playwright, React Testing Library, Unit / Integration / E2E

Performance: Lighthouse, Web Vitals, Bundle Optimization (Webpack)

WORK EXPERIENCE

Senior Software Engineer
Ormea LLP

07/2022 - Present
Core Contributions

- Designed a micro-frontend architecture (React/TypeScript) with a Node.js/GraphQL BFF, enabling independent feature deployments and reducing frontend build times by 40%.
- Pit to Port (Bravus Mining) : Architected and developed a full-stack application for optimizing coal production and transportation logistics, resulting in a 20% improvement in operational efficiency.
- Classroom and University Scheduler : Led the development of an AI-powered scheduling system for educational institutions, incorporating RAG and AI-based chat systems to optimize resource utilization and faculty allocation.
- Engineered a real-time data pipeline using WebSockets and Node.js to handle a peak load of 50,000+ events/sec, slashing data latency from minutes to < 500ms for end-user analytics.
- Orchestrated AWS infrastructure (EC2, S3, RDS) with Docker and CI/CD, achieving 99.95% uptime and enabling zero-downtime deployments for a global user base.
- Mentored and upskilled a cross-functional team of 4 engineers on system design and testing best practices, reducing critical production bugs by 30% and increasing team velocity by 25%.

Software Engineer (Frontend)
ScalingWeb

01/2021 - 06/2022
Core Contributions

- Developed the core architecture for a sub-200ms video conferencing product using WebRTC on the frontend and a highly optimized Node.js signaling server.
- Built an automated content moderation service by integrating TensorFlow.js with Node.js, reducing manual review workload by 40% and improving response time to violations.
- Spearheaded frontend performance initiatives using code-splitting and tree-shaking, cutting bundle size by 50%; optimized backend API response times by 35% through advanced database indexing.

Software Engineer
LivingSpark It Solutions

06/2018 - 12/2020
Core Contributions

- Full-stack development of an educational portal using React, Redux, and Node.js, delivering a responsive and performant experience for 10k+ users.
- Developed an interactive university portal with React/Redux, ensuring cross-browser compatibility and mobile responsiveness.

EDUCATION

B.Tech, Electronics & Communications
Rajasthan Technical University

07/2011 - 07/2015