

JALAJ KUMAR

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SUMMARY

Full-Stack Engineer with hands-on experience designing, building, and deploying end-to-end web applications across the entire SDLC. Proficient in React.js, Next.js, Node.js, Express.js, PostgreSQL, and MongoDB. Architected and deployed production AWS infrastructure (VPC, EC2, ASG, ALB) for a freelance client, load-tested to 100K+ concurrent users. Built real-time collaborative systems using WebSockets with sub-100ms latency. Open-source contributor with merged PRs in stdlib. 200+ DSA problems solved on LeetCode. Seeking Full-Stack Engineer / SDE roles.

TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Responsive/Mobile-First Design

Backend: Node.js, Express.js, REST API Design, WebSockets, Socket.io, JWT Authentication, Event-Driven Architecture

Databases: PostgreSQL, MongoDB, Redis, Prisma ORM, Database Design & Schema Modeling, Query Optimization

Cloud & DevOps: AWS (EC2, VPC, ASG, ALB, Elastic IP, RDS, S3, CloudFront), Docker, Vercel, Git, GitHub Actions, CI/CD, Linux, Cloudflare

Other: OpenAI APIs, Google Vertex AI, n8n Automation, Postman, Agile/Scrum, Code Review, Performance Optimization, Debugging

EXPERIENCE

Freelance Full-Stack Engineer

Jan 2025 – Present

Self-Employed — Remote (Client-Facing)

- Designed and developed a full-stack event management platform end-to-end for a paying client: React frontend, Node.js/Express backend, PostgreSQL database with optimized schema design, and Paytm payment integration.
- Architected production AWS infrastructure: VPC with public/private subnets, EC2 instances behind Auto Scaling Group (2–6 instances) + Application Load Balancer, PostgreSQL on private subnet accessible only via port 5432, NAT Gateway for outbound-only DB access, Elastic IP for stable DNS.
- Load-tested to **100,000+ concurrent users** with zero downtime. Configured ALB target group health checks, CPU-based scaling policies, and Cloudflare for DDoS protection and SSL termination.
- Migrated from monolithic Hostinger deployment to distributed AWS architecture (S3 + CloudFront for static assets, EC2 for API, RDS for data), reducing page load times by 60% and achieving 99.9% uptime.

Event Technology Lead

Sep 2023 – Jun 2024

Blitzkrieg '23 — Delhi University Computer Science Society

New Delhi

- Architected and deployed event website handling **1,500+ concurrent users with zero downtime**. Directed 20+ member cross-functional team across tech, logistics, and vendor management. Streamlined registration workflows, reducing admin overhead by ~40%.

PROJECTS

Prosperia — AI Career Recommendation Platform

Aug – Sep 2024

PERN Stack, Google Cloud, Vertex AI | [Live](#) | [Code](#)

- Built AI-powered skills assessment engine using Vertex AI generating personalized career roadmaps with salary benchmarks across 10+ career tracks. Implemented JWT authentication, Google Cloud backend, multi-path navigation for seamless career exploration. Deployed on Vercel with sub-2s page loads.

Lord of the Board — Real-Time Collaborative Whiteboard

Nov – Dec 2024

Next.js, LiveBlock API, WebSockets, JWT, Tailwind CSS | [Live](#) | [Code](#)

- Engineered multiplayer whiteboard with sub-100ms real-time sync across concurrent sessions using LiveBlock API + WebSockets. Persistent JWT sessions, responsive mobile-first Tailwind UI, optimized for low-latency collaboration.

Aura — E-Commerce Platform

2024

React.js, Node.js, Express.js, MongoDB, Tailwind CSS | [Code](#)

- Full-stack e-commerce application with product catalog, cart management, user authentication, and responsive UI. RESTful API architecture with Express.js, MongoDB for data persistence, and component-based React frontend.

OPEN SOURCE & ACHIEVEMENTS

- stdlib (JavaScript Standard Library):** 4–5 merged PRs for GSoC preparation. Contributed to a large-scale codebase following strict contribution guidelines, wrote unit tests, and iterated through maintainer code reviews in Agile workflows.
- LeetCode:** 200+ problems solved — Dynamic Programming, Graphs, Trees, Arrays. Strong DSA fundamentals.

EDUCATION

- B.Sc. (Hons.) Computer Science — Delhi University, New Delhi** 2023 – 2026
CGPA: 7.2 | Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, System Design