

AYUSH SINGH

Full Stack Developer

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Technical Skills

Frontend: React.js, Redux, Next.js, JavaScript, TypeScript, HTML5, CSS3, Tailwind CSS
Backend: Node.js, Express.js, RESTful APIs, GraphQL, WebSockets, Socket.io, WebRTC
Databases & Cloud: MongoDB, PostgreSQL, Redis, AWS (EC2, S3), Cloudflare, Firebase
DevOps & Tools: Docker, Kubernetes, Git, GitHub Actions, CI/CD, Postman, Nginx
Languages: JavaScript, TypeScript, Python, Java, C++, C, SQL, Dart

Professional Experience

TheNimantran.com — E-Commerce

Oct 2024 – Present

Technical Head & Full Stack Developer

Banaras, Uttar Pradesh

- Led 10-member team to build and deploy full-stack e-commerce platform using MERN stack serving 2000+ active users with JWT authentication and payment gateway integration.
- Implemented AWS EC2 with Cloudflare CDN and Docker CI/CD pipeline, reducing page load time by 40% and deployment time by 60%.
- Optimized MongoDB queries using aggregation pipelines and indexing, improving performance by 50% for high-traffic endpoints.

Software Incubator — AKGEC

Oct 2025 – Present

Backend Developer

Ghaziabad, Uttar Pradesh

- Develop scalable RESTful APIs using Node.js, Express.js, and MongoDB for cross-platform applications with 45+ member agile team.
- Implement Redis caching for horizontal scaling, reducing database load by 35% and improving response times for concurrent users.
- Built a real time attendance and student progress tracking platform for 6000+ students along with the improvement of socket handshaking

Technical Projects

Crona - Social Media Platform | Flutter, Node.js, React.js, MongoDB, Redis, WebRTC

Nov 2025

- Built full-stack social media app with real-time chat, video calls, stories, and reels using Flutter, React.js, Node.js with MongoDB and JWT authentication handling 1000+ concurrent users.
- Integrated WebRTC for P2P video calling, Socket.io for real-time messaging, and Redis for session management with sub-100ms response times.
- Optimized media pipeline using AWS S3, Cloudflare CDN, and FFmpeg for video transcoding, reducing bandwidth costs by 45%.

AiCrona - AI Academic Scheduling | React.js, Node.js, FastAPI, PyTorch, LangChain

Oct 2025

- Developed AI-powered timetable generation system using PyTorch and constraint satisfaction algorithms for clash-free schedules with optimal resource utilization.
- Built AI chatbot using LangChain and GPT with PDF parsing, approval workflow, and responsive React.js dashboard with Redux state management.

Education

Ajay Kumar Garg Engineering College

Oct 2024 – Present

Bachelor of Technology in Computer Science and Engineering — CGPA: 8.38/10.0

Ghaziabad, Uttar Pradesh

Shivbrat Singh Children Academy

July 2021 – May 2023

Intermediate (Class XII) — Percentage: 86.8%

Jaunpur, Uttar Pradesh

Achievements

- Finalist — Smart India Hackathon 2025 (IIT Dhanbad) — Super Contributor — Hacktoberfest 2025
- Fee Waiver from AKTU with 96 percentile in JEE MAINS
- First Rank in Render 3.0 and Commit 2.0 (AKGEC), Web development competitive workshop