

# Ankit Singh

Senior Full-Stack Developer | MERN Stack | Golang | Python | Docker | Kubernetes  
ankit.singh42work@gmail.com | +91 9234080522 | [LinkedIn](#) | [GitHub](#) | [Web Resume](#)

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## PROFESSIONAL SUMMARY

Senior Full-Stack Developer with 4+ years delivering production-grade MERN applications, distributed microservices, and RESTful/GraphQL APIs at scale. Proven track record of 60–98% performance and cost improvements through event-driven architecture (Kafka, RabbitMQ), real-time WebSocket systems, and cloud-native DevOps (Docker, Kubernetes, AWS). GATE 2025 qualifier, active open-source contributor, and hands-on AI/ML and 3-D web researcher.

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## TECHNICAL SKILLS

**Frontend:** React.js, Next.js, Angular.js, Astro, Three.js, WebGL, React Three Fiber, Tailwind CSS, Redux

**Backend:** Node.js, Express.js, NestJS, Python, Golang, Spring Boot, C++, REST API, GraphQL, WebSocket, JWT, OAuth 2.0

**Databases:** MongoDB, MySQL, PostgreSQL, DynamoDB, Redis, Elasticsearch

**Messaging:** Apache Kafka, RabbitMQ, Google Pub/Sub — event-driven and async architecture

**DevOps:** Docker, Kubernetes, AWS (EC2, S3, Lambda, ECS, CloudWatch), CI/CD, GitHub Actions, Nginx

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## WORK EXPERIENCE

### Independent Game Studio & Applied Research

Nov 2024 – Present

- Architected a zero-plugin browser game engine using Three.js, React Three Fiber, and WebGL — delivering rock-solid 60 fps real-time rendering with device-camera as the sole controller, eliminating hardware dependency entirely.
- Engineered a Federated Learning pipeline with LoRA fine-tuning on 500K+ scraped samples, cutting domain inference latency by 40% while preserving accuracy across distributed nodes — no centralised data exposure.
- Built a Golang + FFmpeg Bayesian motion-detection system that slashed video storage overhead by 65% through intelligent keyframe compression; qualified GATE 2025 (CS/IT) in the top percentile.

### Revfin — Full-Stack Developer | Hyderabad

Jun 2024 – Oct 2024

- Delivered the RevIoT fleet portal with pixel-perfect Figma-to-React fidelity and granular RBAC, boosting operational efficiency by 85% and eliminating 3+ manual workflow bottlenecks for ops teams.
- Built a real-time GPS replay engine on Google Maps API for day-wise driver tracking across 1,000+ vehicle routes, cutting fleet overhead management costs by 75%.
- Automated end-to-end HTML-to-PDF generation with an AWS S3 streaming pipeline, reducing document turnaround from hours to seconds and cutting manpower dependency by 90%.

### Apptware — Full-Stack Developer | Pune

Oct 2023 – Mar 2024

- Architected Chordia, an AI-powered NLP insurance-policy agent, reducing manual query resolution time by 70% organisation-wide and handling complex multi-turn conversations in natural language.
- Deployed Slack and MS Teams policy bots on a fault-tolerant Pub/Sub architecture serving 50K+ concurrent users with zero race conditions and sub-200ms average response latency.
- Engineered Redis-backed role management cutting unauthorised access incidents by 100%; mentored 4 junior developers on NestJS patterns, accelerating team sprint velocity by 30%.

### Visit Health — Full-Stack Developer | Delhi

Feb 2022 – Oct 2023

- Delivered a telemedicine Doctor Dashboard with HD audio/video via Exotel/Dyte API, processing 10K+ monthly consultations and reducing critical platform downtime by 60%.
- Architected a Kafka + Google Pub/Sub microservices mesh for real-time health-data streaming, improving platform resilience by 98% and sustaining 3x peak-traffic spikes without degradation.

### Infosys — Systems Engineer | Hyderabad

Dec 2019 – Dec 2021

- Engineered a real-time WebSocket intra-office chat system for Genesys handling 5K+ concurrent sessions; restructured MongoDB indexing and schemas, reducing average query latency by 55%.
- Led full PHP-to-Node.js migration of the Genesys conversation module, tripling API throughput and cutting business-logic error rate by 40% — adopted as the new internal engineering standard.

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## EDUCATION

### B.Tech – Information Technology

Mar 2015 – Apr 2019

Swami Keshvanand Institute of Technology, Management and Gramothan (SKIT), Jaipur