

ANKIT SINGH

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Education

Pranveer Singh Institute of Technology, Kanpur

Aug 2019 – Jul 2023

Bachelor of Technology, Computer Science and Engineering

SGPA: 8.46/10

Experience

Nagarro

Mar 2023 – Present

Software Engineer - 1

India

- Engineered a **React.js**-based eKYC onboarding platform with an 8-step workflow, reusable components, secure session handling, **AES-GCM** encryption, and **AWS Liveness Detection**.
- Introduced the **Partial Rejection Flow**, enabling users to resume applications through application-specific links and update only rejected sections, reducing rework by 60% and improving completion rates by 25%.
- Partnered with clients during UAT and production readiness, resolving 15+ critical issues across camera integration, video processing, and **VAPT** compliance, enabling 100% UAT sign-off and on-time production release.
- Led frontend production deployment using **Nginx**, achieving a zero-downtime production go-live and supporting a platform serving thousands of user onboarding sessions monthly.
- Strengthened real-time communication security by migrating AI avatar communication from **STUN** to **TURN-based WebRTC** architecture, eliminating internal IP exposure and achieving 100% secure media relay for real-time communication sessions.
- Prototyped 2 AI-driven proof-of-concepts for OTP audio verification and facial obstruction detection to enhance identity verification workflows
- Developed a banking RAG chatbot using **React.js** with **Azure AD/MSAL** SSO, secure authentication, and conversational assistance, reducing branch footfall by 7%.
- Optimized enterprise applications using **Angular**, **NgRx**, and **ASP.NET CQRS**, improving Resource retrieval performance by 30% and reducing Contract Module development effort by 20%.
- Implemented **RabbitMQ-based** asynchronous notification processing within **MERN** and microservices ecosystems, contributing to 15+ feature releases.

Projects

Leave Management System | *Node.js, MongoDB, RabbitMQ, Docker, Nginx, ELK, Jaeger, Consul* | [\[GitHub Link\]](#) 4

- Architected a distributed **microservices-based Leave Management System** with API Gateway, 5 independent services, and isolated MongoDB databases following the **Database per Service** pattern.
- Established a RabbitMQ-based event-driven architecture across 5+ microservices, leveraging Saga orchestration, Circuit Breakers, and **ELK Stack** for reliability and monitoring.

Dermiva – Dermatology Clinic Platform | *Next.js, React, TypeScript, Supabase, Tailwind CSS* | [\[Live Site\]](#) 4

- Launched a **Next.js** patient-facing website featuring 20+ treatment pages and an **MDX-powered** blog, enabling efficient content management.
- Integrated **Zod-validated** forms with **Supabase**, alongside SEO optimization, automated sitemaps, and an interactive FAQ chatbot, increasing lead capture efficiency by 25%.

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, C++, HTML, CSS

Frontend: React.js, Next.js, Angular, Redux, MobX, NgRx, Tailwind CSS.

Backend: Node.js, Express.js, ASP.NET, FastAPI, REST APIs

Databases: MongoDB, MySQL, Supabase

Architecture: Microservices, CQRS, API Gateway, Event-Driven Architecture, Design Patterns.

Cloud, Security & DevOps: Azure AD, MSAL, AWS, Docker, Nginx, RabbitMQ, ELK Stack, Jaeger, Consul, WebRTC, AES-GCM, Git, JIRA, Postman

Profile Links

- Leetcode
- GitHub

Achievements and Certifications

- Received the **"Brightest Mind" Award** recognizing outstanding performance and contribution.
- Recognized as a **Top 5% performer** for 3 consecutive review cycles, reflecting sustained excellence and innovation across projects.
- Earned certification in **Azure Cloud Training** from LinkedIn Learning