

Akash Gupta

📍 Bangalore, Karnataka, India

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Full-Stack Engineer with over 2 years of experience architecting and scaling enterprise applications using Next.js, TypeScript, and modern cloud ecosystems. Proven track record of navigating complex Fortune 500 codebases, optimizing high-volume data workflows, and implementing automated CI/CD pipelines. Focused on delivering high-performance, maintainable systems.

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Python, C++, C
- **Frontend & Mobile:** Next.js, React, React Native, Tailwind CSS, Zustand, TanStack React Query, Framer Motion, GSAP
- **Backend & Databases:** Node.js, Express.js, Flask, PostgreSQL, MongoDB, Prisma ORM, REST & GraphQL APIs
- **Cloud, DevOps & Tools:** Docker, AWS (S3), CI/CD (GitHub Actions), Linux, Git, Pandas, System Design

EXPERIENCE

Tata Consultancy Services (TCS)

Aug 2024 - Present

Full-Stack Engineer

Bangalore, India

- Architected the migration of legacy AEM enterprise applications to Next.js, leveraging **Server-Side Rendering (SSR)** and Server Actions to **reduce page load times by over 90%**.
- Engineered a highly scalable data pipeline for **massive file transfers (up to 50GB)** using Next.js and **AWS S3**, implementing **multipart chunked uploads** to optimize memory management and prevent network timeouts.
- Designed and developed a **custom asynchronous state management** library featuring timed caching and optimistic UI updates, reducing unnecessary API polling and complementing the existing **Redux architecture**.
- Deployed secure **Backend-for-Frontend (BFF)** proxy APIs to interface seamlessly with **Java microservices**, Apigee, and Salesforce, establishing a robust, full-stack enterprise architecture.
- Architected a **custom internationalization (i18n) routing system** from scratch using advanced **Next.js rewrite configurations** to bypass complex deployment constraints. Ensured **zero disruption** to existing API endpoints, assets, and health checks.
- Acted as the **primary Next.js Subject Matter Expert (SME)** across multiple teams, **mentoring 10+ engineers**—including senior staff—on modern React paradigms, state management, and resolving complex architectural blockers.

Skiaverse

Jul 2023 - Dec 2023

Full-Stack Developer Intern

Remote

- Engineered an **end-to-end web application** using **React (Vite)**, **Express.js**, and **PostgreSQL**, driving the complete software development lifecycle from initial database schema design to deployment.
- Implemented advanced **client-side performance optimizations**, including component lazy loading, dynamic routing, and optimistic state updates, resulting in a seamless user experience.

EDUCATION

Techno Main Saltlake

Kolkata, India , 2020 – 2024

B.Tech, Electronics and Instrumentation

Aggregate CGPA: 9.4

PROJECTS

Real-Time Team Communication Platform

[[GitHub](#)]

- Architected a scalable, low-latency communication system utilizing **WebSockets** with **HTTP polling** fallbacks, supporting concurrent live messaging, **WebRTC-based** voice/video channels, and robust media processing via Cloudinary.
- Designed a high-throughput Next.js and Prisma backend to manage multi-server data flows, implementing **cursor-based batch message loading** and live presence tracking to **minimize database payload** and optimize client-side memory.

Headless Multi-Tenant E-Commerce CMS

[[GitHub](#)]

- Engineered a **headless, multi-tenant** Content Management System (CMS) capable of orchestrating inventory, product relations, and content for multiple independent storefronts from a **centralized database architecture**.
- Developed a secure administrator dashboard featuring real-time revenue analytics, complex data aggregations, and a robust **RESTful API layer** for seamless **cross-domain storefront data consumption**.

SaaS AI Companion Platform [↗](#)

[[GitHub](#)]

- Engineered a full-stack SaaS platform utilizing the **LangChain framework** and **Llama-2** to deliver context-aware, personalized AI conversational experiences.
- Implemented **persistent conversational memory** and efficient prompt processing workflows to **optimize LLM inference latency** and ensure high-fidelity response relevance.