Saransh Gupta

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EDUCATION

Indian Institute Of Technology Kharagpur   CGPA - 9.20
Bachelor of Technology in Electrical Engineering   *Aug. 2023 – May 2027*

PROJECTS

Alumni Connect | *Typescript, Next, Next-Auth, Docker, CI/CD, PostgreSQL*   Feb 2025 – Mar 2025
- Orchestrated CI/CD pipelines using Docker, cutting down deployment times by 60% for 5,000 daily users and enhancing system reliability.
- Connected Next-Auth with Nodemailer to facilitate secure email-based logins and role-based access control for the platform, enabling the successful onboarding of 100+ new users weekly.
- Built a CRM-driven admin portal for managing users with role-based access, enabling seamless data updates, deletions, content management and improving efficiency by 40%.

C3 docs | *typescript, WebSockets, firebase ,express, React, PostgreSQL, redis*   Aug 2024 – Sep 2024
- Engineered a scalable full-stack SaaS application using Express and React, building a REST API handling up to 10,000+ requests per second in load testing.
- Integrated Web Sockets for real-time collaboration, enabling seamless multi-user interactions and decreasing response time by 40% for an enhanced user experience.
- Integrated Operational Transformation (OT) into a cloud-based text editor, enhancing multi-user collaboration and improving document editing efficiency by 40% as measured by user surveys.
- Optimized latency by 40% using Redis caching and delta storage, reducing database overhead.

Full-Stack Appointment Platform | *React, PostgreSQL, Prisma, Auth, Turborepo*   July 2024 – Aug 2024
- Developed a multi-server platform in Turborepo for doctors and patients, improving task assignment efficiency by 35%.
- Implemented JSON Web Tokens (JWT) with NextAuth to manage user authentication and authorization, creating a scalable and secure system for managing 5000+ unique user roles.
- Architected an optimized frontend with Next.js (TypeScript), optimizing load times by 30%.
- Reduced query execution time by 40% using Prisma and PostgreSQL, improving query efficiency by 40%.

POSITIONS OF RESPONSIBILITY

Secretary Web   Dec. 2024 – Present
Technology Students Gymkhana   *IIT, KGP*
- Streamlined the Gymkhana website for 500+ active users by adding a reports section for admins to publish reports and optimizing the society registration process for students.

Subhead   Feb 2024 – Present
Kharagpur Blockchain Society   *IIT, KGP*
- Organized a blockchain hackathon with 20+ finalist teams, streamlining logistics, enhancing participant engagement, and providing technical support to foster blockchain innovation.
- Enhanced the society's website with regular updates and new features, serving 200+ users.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C/C++, Postgres, HTML/CSS, Go
Frameworks: React, Node.js, Next, Turborepo, Material-UI, FastAPI, Tailwind
Developer Tools: Git, Docker, GitHub Actions, CloudFront, Cloudinary, VS Code, Nvim
Libraries: Socket.io, Kafka, Redis, Prisma, SqlAlchemy, Mongoose

TEST SCORE

Secured **AIR 1918** in **JEE Advanced 2023**, ranking in the top 0.5% nationwide.
Achieved **AIR 6646** in **JEE Mains 2023**, ranking in the top 0.4% nationwide.