Sahiljeet Singh Kalsi

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Education

Don Bosco Institute of Technology, New Delhi - Bachelor of Computer Application (9.16 CGPA)   Aug 2022 - Jul 2025

Skills

Languages: JavaScript, TypeScript, Python, C/C++, Java

Front-End: React.js, Next.js, Tailwind CSS, React Native

Back-End: Node.js, Express.js, RESTful APIs, Nest.Js,
Graphql, TypeORM

Databases: PostgreSQL (SQL), MongoDB (NoSQL)

Tools & Platforms: GitHub, Android Studio, Firebase, Postman, GCP

Experience

App Developer Internship, Tech Access Learning Pvt Ltd   Jul 2024 – Sep 2024
- Built a local MP3 player in Kotlin (Android Studio) with playlist management and media controls.
- Developed a cross-platform movie bookmarking application in React Native with persistent storage.

Full Stack Developer Intern, Newral.in   Sept 2025 – Present
- Worked on a production EdTech platform with **100k+ active users**, contributing across backend systems and frontend integrations. Optimized SQL queries by restructuring logic, indexing, and caching
- Built and enhanced backend features handling **large datasets and multi-database operations** using **NestJS, TypeScript, PostgreSQL, Redis, BullMQ, and TypeORM**.
- Optimized SQL queries, indexing, and Redis caching, reducing backend CPU usage from **~95% to ~15** under peak load.
- Redesigned the **video upload and transcoding pipeline,** improving processing speed by **80%+** and increasing reliability.
- Resolved bugs and production issues across multiple microservices to improve system stability.
- Reduced cross-service overhead by optimizing Pub/Sub communication and minimizing unnecessary internal service calls.

Projects

ImageAI - AI-Powered Image Editing Platform   Live Link
- Built an AI-powered image editing platform with Next.js 14, TypeScript, and Tailwind CSS.
- Integrated Cloudinary AI for image generation, background removal, and object recoloring.
- Implemented secure authentication with Clerk and real-time feedback with React-Toast.

CipherSprint - Typing Speed Test Website   Live Link
- Developed a real-time typing test platform with React.js and Firebase for WPM tracking and performance graphs.
- Designed a responsive UI with Tailwind CSS and MUI, including theme customization and dynamic notifications.

Gaberina - Ecommerce Platform   Live Link
- Engineered a full-stack e-commerce platform with a React frontend and a Node.js, Express backend, implementing a complete shopping system and user authentication.
- Developed a dedicated admin panel for comprehensive platform management, including CRUD operations for products and real-time order tracking.

Achievements & Leadership
- **Coding Head at Unite Creatives :** Organized coding initiatives and led a hackathon with 100+ participants.
- **Master of Ceremony at ITrang College Fest**: Hosted the flagship event, engaging 500+ students and faculty.
- **Active member of Rotaract Club:** Conducted community service campaigns, including blood donation and stem cell donation drives.
- **Best Research Paper Award:** Paper on AI and Mental Health, presented at an International Conference hosted by Don Bosco Institute of Technology.