

# Aarush Gupta

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## WORK EXPERIENCE

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### Web Developer – TechBridge Consultancy Services

April 2025 – May 2025

- Built a **Performance Management System** to solve inefficiencies in tracking employee performance, where existing tools lacked clarity and real-time insights.
- Designed role-based **dashboards** (CEO, HR, Manager, Admin, Super Admin) using **React, TypeScript, Node.js, and PostgreSQL**, enabling structured access control.
- Improved organizational efficiency by adding **RBAC**, activity logs, and full-text search; deployed the solution on **Render/Vercel** for real-world usage.

## PROJECTS

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### CodeSurfer

[GitHub](#)

Developed an AI-driven code generation and exploration platform using **Next.js, tRPC, Prisma, Ingest, E2B sandbox, and OpenAI API**. Enabled safe code execution in isolated environments and built a scalable full-stack architecture for real-world coding workflows.

### Spotify Clone

[GitHub](#)

Built a Spotify-inspired music streaming platform with **Clerk-based authentication** and real-time queue handling. Implemented custom audio controls, playlist features, and **REST APIs** in TypeScript with MongoDB backend.

### Chat App

[GitHub](#)

Built a real-time chat app with **JWT authentication**, online/offline indicators, and MongoDB persistence. Used **Socket.IO** for instant messaging and React + TailwindCSS for responsive UI/UX.

## EDUCATION

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B.Tech in **Mechanical Engineering**, **Punjab Engineering College (PEC)**, 2023 – Present  
**Chandigarh** (C.G.P.A: 8.44/10)

Class 12<sup>th</sup>, **Army Public School, Ambala Cantt** (Percentage: 94.2%) 2023

## HONORS & AWARDS

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- **Rotaract Club – Core Member** — Organized and led service initiatives at a local home for physically disabled individuals.
- Completed **Data Structures and Algorithms** course from TUF+.
- Completed Udemy courses: **Introduction to C++** and **JavaScript**.

## SKILLS

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<b>Programming Languages</b>	C++, Python, JavaScript, TypeScript, HTML, CSS
<b>Libraries / Frameworks</b>	React.js, Next.js, Node.js/Express.js, Tailwind CSS
<b>GenAI / ML</b>	LangChain, LangGraph, OpenAI API, Hugging Face Transformers, Pinecone, Qdrant, Redis (Vector), RAG, Prompt Engineering
<b>Tools / Platforms</b>	Git, GitHub, VS Code, Postman, Docker, MongoDB, PostgreSQL