

# Ayush Gupta

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## PROFESSIONAL SUMMARY

Full Stack Developer and B.Tech Computer Science student with production experience shipping **Next.js** applications to **100k+ users** and **RESTful backends** using **PostgreSQL**, **Prisma**, and **Redis**. Specializes in bridging full stack engineering with **Generative AI**, having designed and deployed **Retrieval Augmented Generation (RAG)** systems, **LLM powered agents**, and **multi agent pipelines** using **LangGraph**, **LangChain**, and **CrewAI** across real-world projects.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, TypeScript

**Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Responsive Design, Progressive Web Apps

**Backend:** Node.js, Express.js, NestJS, FastAPI, RESTful APIs, Supabase, RabbitMQ, Redis, Microservices, System Design, Object-Oriented Programming (OOP), Data Structures & Algorithms

**Databases:** PostgreSQL, MongoDB, Redis, Prisma ORM, Qdrant (Vector DB)

**AI/ML:** LLMs, LangGraph, LangChain, CrewAI, RAG Pipelines, Hybrid Retrieval, RAGAS Evaluation, Groq API, Hugging Face, Prompt Engineering

**DevOps/Tools:** Docker, Docker Compose, Git, GitHub Actions, CI/CD (Continuous Integration/Continuous Deployment), Firebase, Agile Development

## WORK EXPERIENCE

### Full Stack Developer - Web3Task

Feb 2026 - Aug 2026

*Next.js, Tailwind CSS, REST APIs*

- Developed and maintained **voicetonotes.ai**, a production **Next.js** application serving **100k+ active users**, building responsive UI components and integrating REST APIs end-to-end.
- Led **performance optimization** on the Next.js site by deferring analytics and GTM scripts and eliminating render-blocking resources, **reducing initial load time by 75%** and improving **Lighthouse performance scores from 45 to 85+**.
- Scaled backend infrastructure and incorporated **Firebase Cloud Messaging (FCM)** to implement an automated push notification pipeline for real-time user alerts and re-engagement.
- Collaborated in an **Agile** team to ship weekly features and improvements on a live production product with active users.

### Full-Stack Music Distribution Platform - Freelance

Jun 2026

*Next.js, Node.js, Express, PostgreSQL, Prisma, Cloudinary, Razorpay, JWT*

- Built a full-stack **monorepo SaaS platform** for music distribution using **Next.js**, **Express**, and **PostgreSQL** with **Prisma ORM**, supporting **4 multi-format artist releases**, automated metadata extraction, and **Cloudinary** cloud storage uploads.
- Implemented granular **Role-Based Access Control (RBAC)** via **JWT** and **Google OAuth**, securing an admin moderation panel across **3 distinct user roles**.
- Added **Razorpay** payment gateway integration to handle subscription billing, enabling full-cycle monetization for the platform.

### Helping Hands: On-Demand Labour Marketplace - Freelance

Jul 2026 - Aug 2026

*NestJS, TypeScript, PostgreSQL, Prisma, Supabase, Socket.IO, BullMQ*

- Architected a multi-sided marketplace backend using **NestJS/TypeScript** in a **TurboRepo monorepo**, with a multi-mode runtime that boots as a REST API, WebSocket gateway, or background worker, enabling independent horizontal scaling of each workload.
- Built real-time crew tracking with **Socket.IO**, syncing live location and job status between customer and worker clients.
- Implemented geospatial matching (**PostGIS**-style queries) to connect customers with the nearest available worker or crew by location and service zone.
- Engineered asynchronous job processing with **BullMQ** to handle matchmaking and notification workflows off the request path.
- Designed the data layer with **Prisma**, **PostgreSQL**, and **Supabase**, including a KYC verification flow for worker onboarding.
- Shipped a native **Android app (Kotlin, Jetpack Compose)** alongside a **Next.js** web client, supporting dual customer/worker personas from onboarding to job completion.

## KEY PROJECTS

### LeetCode Interview Agent: Automated Coding Interview System

Jun 2025

*FastAPI, CrewAI, Chrome Extension (MV3), GitHub API*

- Developed a **multi-agent system** with **FastAPI** and **CrewAI** that simulates live coding interviews, automatically generating an original solution, an optimized solution, and a **Markdown** interview guide for each problem in **under 100ms per problem**.
- Automated complexity analysis and approach documentation for **100+ LeetCode problems**, cutting manual write up time to zero.
- Configured automatic **GitHub upload** of accepted solutions via the **GitHub API**, maintaining a structured, versioned solutions repository updated after every accepted submission.

### Meeting-to-Notion: AI Agent for Meeting Transcription

Apr 2026

*FastAPI, LangGraph, Redis Streams, PostgreSQL, Pinecone, Chrome Extension (MV3)*

- Created a production **AI agent** using **FastAPI** and **LangGraph** to capture live audio from **Zoom** and **Google Meet**, autonomously converting transcripts into structured **Notion** notes with **under 5 seconds** of post-meeting processing latency.
- Orchestrated an **asynchronous multi-agent pipeline** using **Redis Streams** for event queuing, **PostgreSQL** for state persistence, and **Pinecone** for vector memory, enabling scalable processing of **10+ concurrent meeting sessions**.
- Integrated **3 transcription providers (Deepgram, Whisper, AssemblyAI)** with **automatic failover** and built a **Chrome Extension (Manifest V3)** for seamless in-browser meeting capture.

## EDUCATION

### Bachelor of Technology - Computer Science Engineering

Sep 2024 - Jun 2028

*ABES Engineering College, AKTU*

Ghaziabad, India

## ACHIEVEMENTS

- Solved **800+ Data Structures & Algorithms (DSA)** problems across **LeetCode (300+)** and **CodeChef (500+)**, maintaining consistent problem-solving streaks.
- Rated **2-Star Coder** on **CodeChef** (Max Rating: 1495), actively competing in global algorithmic contests.