

# Jeet Mandal

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## EDUCATION

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### Kazi Nazrul University

Bachelor of Computer Applications — GPA: 8.75 / 10

Asansol, West Bengal

2023 – 2027

## ACHIEVEMENTS

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### Hackathon - 1st Runner-Up

Mar. 2025

Code for Change, NSHM College

Onsite

- Engineered the backend for an AI interview coach, integrating **GPT** for question generation and **ElevenLabs** for real-time Speech-to-Text (STT).
- Developed a contextual conversation engine by managing a message array to provide chat history to the AI, enabling more human-like, relevant feedback.

## PROJECTS

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### DrawBoard – Real-time Collaborative Canvas Platform

Jan 2025

Next.js 15, TypeScript, WebSockets, Microservices, Turborepo, Prisma, PostgreSQL, Express, Tailwind

[GitHub](#)

- Architected a **scalable microservices platform** with real-time collaboration using WebSockets, supporting concurrent multi-user drawing sessions with live cursor tracking and instant synchronization.
- Built an enterprise-grade **monorepo architecture** using Turborepo with 4 microservices: a Next.js frontend, an Express.js REST API, a dedicated WebSocket server, and a shared package ecosystem for type safety and code reusability.
- Engineered a high-performance **HTML5 Canvas rendering engine** with custom drawing algorithms for geometric shapes (rectangles, circles, lines) and real-time preview functionality.
- Implemented **JWT-based authentication** with bcrypt password hashing, Zod for schema validation, and PostgreSQL with Prisma ORM for robust, secure data persistence and management.

### Hire-me – AI-Powered Interview Platform

July 2025

Next.js, TypeScript, Prisma, PostgreSQL, OpenAI, Redis, CI/CD, Tailwind CSS

[GitHub](#) — [Live Demo](#)

- Developed and launched a full-stack AI-driven interview platform**, enabling recruiters to streamline the hiring process by posting jobs and allowing candidates to practice with AI-evaluated mock interviews. This platform provides structured, actionable feedback to candidates, improving their interview skills.
- Engineered a secure and scalable backend** using a modern tech stack including **Prisma, PostgreSQL, and Redis**. This robust architecture supports a high volume of concurrent users and ensures data integrity.
- Implemented a comprehensive authentication and authorization system** using **Auth.js** with OAuth for Google & GitHub. This system includes features like email verification and password reset functionality via **Resend**, and secures routes with role-based access control (RBAC) for candidates and recruiters.
- Integrated OpenAI's Large Language Models (LLMs)** to create a realistic mock interview experience. This includes AI-powered generation of job descriptions and real-time evaluation of candidate responses, providing instant, structured feedback.

## TECHNICAL SKILLS

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**Programming Languages:** JavaScript, TypeScript, C, C++

**Frontend Development:** HTML, CSS, React, Next.js, Tailwind CSS, Framer Motion, ShadCN/UI, Zustand

**Backend Development:** Node.js, Express.js, Hono, RESTful APIs, Serverless Functions

**Databases & ORM:** MongoDB, PostgreSQL, SQL, Prisma, Mongoose

**Tools:** Git, GitHub, Docker, CI/CD, Turborepo, Monorepo, Postman, OpenAI API