

# Rakshit Mehta

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## Education

### Graphic Era University

Bachelor of Technology in Computer Science (CGPA: 8.32 / 10.00)

Expected May 2026

Dehradun, Uttarakhand

## Projects

### PeerTalk - Real-Time Communication Platform | 🌐 🔄

- Engineered real-time messaging system using **Socket.IO**, implementing typing indicators and read receipts that increased user engagement by **40%**
- Designed secure media sharing with **AWS S3 presigned URLs**, reducing storage costs by **25%** while maintaining strict access controls
- peer-to-peer video call** integration using **WebRTC**, enabling seamless 1:1 video conversations within the chat interface
- Implemented **OAuth 2.0 authentication flow from scratch**, without third-party libraries, for secure and customized user login experience
- Containerized application using **Docker Compose**, reducing deployment setup time by **65%** and ensuring consistent environments across development stages
- Architected scalable backend services with **Express.js** and **Prisma ORM**, handling **concurrent WebSocket** connections with **JWT authentication**

### Online Code Compiler | 🔄

- Engineered a secure multi-language code execution platform using **Next.js**, **Docker**, and **Monaco Editor** (VS Code's editor)
- Implemented secure code execution using **Dockerode** for container orchestration, enabling programmatic control of isolated Docker environments
- Built a feature-rich code editor with **Monaco Editor**, supporting syntax highlighting, multiple themes, and real-time code execution
- Designed project management system with file explorer supporting multiple files, real-time saving, and tree-based organization
- Architected backend with **Next.js API Routes**, **Prisma ORM**, and **PostgreSQL** for efficient data persistence and code execution management

### Personal Developer Portfolio | 🌐 🔄

- Engineered an interactive portfolio using **React.js**, **TypeScript**, and implementing smooth animations and responsive design for optimal user experience
- Developed a modular component architecture showcasing projects, skills, and professional experience with **reusable UI components**
- Implemented **responsive design principles** and **mobile-first approach**, ensuring seamless accessibility across all device sizes

### Blockchain Wallet Application | 🌐 🔄

- Developed **Solana blockchain wallet** supporting transaction processing, balance tracking, and **testnet airdrops**
- Used **Next.js 13** with App Router, implementing server-side rendering and optimized static site generation for enhanced performance and SEO
- Optimized deployment workflow by containerizing application with **Docker**, reducing setup time by **70%** and ensuring environment consistency
- Implemented secure **keypair management system**, achieving **zero security incidents** during operation

## Technical Skills

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

**Frontend:** React, Next.js (App Router), Tailwind CSS, Framer Motion, Shadcn UI

**Backend:** Node.js, Express, Socket.IO, WebRTC, REST, JWT, OAuth

**Database:** PostgreSQL, MongoDB, Redis    |    **ORM:** Prisma

**DevOps:** Docker, AWS (EC2, S3, RDS), Vercel, Netlify

**Tools:** Git, Postman, VS Code