

Rajat Malik

Software Engineer | New Delhi, India |  Portfolio

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EDUCATION

G.L. Bajaj Institute of Technology and Management

Bachelor of Technology in Computer Science / GPA: 8.22/10

Greater Noida, India

Aug 2023 – May 2027

EXPERIENCE

Software Developer Intern

Jan 2026 – May 2026

Micro1 / Remote

- Engineered **RESTful APIs** using **Node.js** and optimized complex **PostgreSQL** queries, reducing data retrieval latency by **30%** and improving system scalability to support **10,000+ daily active users**.
- Developed **15+ reusable, responsive frontend components** in **React**, increasing code maintainability and decreasing UI development time for subsequent features by **20%**.
- Collaborated within a distributed **Agile team of 8 engineers** to deliver modular features, ensuring high code quality through rigorous **Git** version control and code reviews, which reduced post-deployment bugs by **25%**.

PROJECTS

SignalForge | React | Express.js | PostgreSQL | Prisma | OpenAI | WebRTC

 GitHub | [Live Demo](#)

- Architected a **multi-tenant AI interviewing platform** supporting **3 user roles** with secure **RBAC** and automated workflows, reducing manual recruiter scheduling overhead by **40%**.
- Integrated **OpenAI Realtime API**, **Deepgram**, and **WebRTC** to engineer low-latency (**<500ms**) voice conversations featuring bidirectional audio processing and **95%+** transcription accuracy.
- Designed a normalized **PostgreSQL** schema via **Prisma ORM** and implemented **RESTful APIs** to efficiently orchestrate concurrent interview sessions, transcript storage, and AI evaluations.
- Developed dynamic recruiter dashboards in **React**, streamlining the interview lifecycle and accelerating candidate evaluation and transcript review times by **30%**.

Voice-Based Email System | React | Next.js | Flask | Whisper | Gmail API

 GitHub | [Live Demo](#)

- Built a hands-free, **AI-powered email platform** supporting **25+ concurrent voice commands** for composing, searching, and managing emails, significantly streamlining inbox navigation.
- Integrated **Whisper Speech-to-Text**, **gTTS**, and the **Gmail API** via a **Flask** backend, achieving **98% transcription accuracy** to deliver seamless end-to-end voice interaction.
- Engineered a fully accessible, keyboard-independent frontend using **Next.js**, adhering to strict **ARIA accessibility standards** to maximize usability and inclusion for visually impaired users.
- Optimized application responsiveness and real-time voice feedback mechanisms, reducing average user task completion time by **25%** across both desktop and mobile browsers.

TECHNICAL SKILLS

Languages: C++, Python, Java, SQL

Frameworks: React, Next.js, Node.js, Express.js, Flask

Databases & ORMs: PostgreSQL, MySQL, MongoDB, Prisma ORM

Developer Tools: Git, Docker, Postman

Core CS: Data Structures & Algorithms, System Design, OOP, DBMS, Operating Systems, Computer Networks

AI & APIs: OpenAI API, Deepgram, Whisper, Gemini AI, REST APIs, OAuth, ARIA

ACHIEVEMENTS

- Research Publication:** Paper accepted for presentation at **IEEE AMSCEHT 2026** for developing an **AI-powered voice-enabled email system**.
- Competitive Programming:** Rated **Guardian (2279)** on LeetCode and solved **400+** complex algorithmic problems across LeetCode and Codeforces.
- J.P. Morgan Code for Good (Runner-Up):** Engineered a scalable, production-ready software solution for social impact under strict hackathon time constraints.
- APS HackFest (Winner):** Designed and delivered an innovative, functional software prototype within a rigorous **36–40 hour** timeframe.