Rachit Kumar Choudhary

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EDUCATION

Jaypee Institute of Information Technology | Noida, UP   **2021–2025**
Bachelor of Technology in Computer Science and engineering

TECHNICAL SKILLS

Languages: C/C++, SQL, HTML/CSS, JavaScript, TypeScript, Python
Frameworks/Libraries: React, Material-UI, BootStrap, Flask, Pandas, NumPy
Tools: Git, VS Code, Docker, AWS, Google Cloud
Database: MongoDB, Google Firebase, MySQL

EXPERIENCES

Webstack Academy-WSA | *Full-Stack Developer Intern*   **July 2024–Sep 2024**
Remote

- Built an AI-powered interview simulation platform with React.js, Node.js and Flask, enabling realistic mock interviews with real-time voice-to-text transcription using OpenAI's Whisper model.
- Developed a personalized question recommendation engine that adapts to user profiles and performance history, enhancing the relevance and effectiveness of interview practice sessions.
- Designed scalable RESTful APIs for seamless audio processing and dynamic question delivery, supporting modular integration and robust frontend-backend communication.

Zidio Development | *Fronted Developer Intern*   **Jan 2024–Mar 2024**
Remote

- Built fast and modular frontend applications using Vite.js for development and bundling, reducing build times and improving development workflow efficiency.
- Designed responsive and accessible UI components with Tailwind CSS, accelerating styling through utility-first classes and ensuring consistency across the web app.
- Collaborated with cross-functional teams to integrate dynamic features, implemented using modern JavaScript (ES6+) and consumed REST APIs, with version control handled via Git.

PROJECTS

AI Interview Simulator | *React.js, Python, JavaScript, Node.js, Express.js, MongoDB, RabbitMQ*   link

- Built a full-stack AI interview simulation app using Flask (Python) and Node.js for backend services and React.js (with Material UI) for a responsive, user-friendly frontend.
- Integrated OpenAI Whisper for robust audio transcription and used NLTK with custom cosine similarity logic for evaluating semantic accuracy of candidate responses.
- Constructed RESTful APIs and managed application state and authentication, facilitating AI-based question handling and user session management.

Stimulus | *Firebase, Node.js, React.js, Material Design Lite, Electron*   link

- Built a cross-platform desktop app using Electron and Material UI to streamline academic workflows including marks entry, analysis, and automated report generation.
- Integrated Firebase authentication and real-time database to ensure secure, institution-restricted access and maintain data integrity during concurrent updates.
- Implemented Excel parsing and dynamic CO attainment analysis, including PDF report generation and color-coded visual feedback to enhance performance insights.