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

- Developed a **full-stack interview simulation platform** using React.js for the frontend and Flask for the backend, allowing users to practice and receive feedback on mock interviews.
- Integrated **OpenAI's Whisper model** to transcribe spoken responses into text, enabling voice-based interaction in interview simulations.
- Implemented a **custom question recommendation engine** that dynamically selects relevant interview questions based on user profiles and previous performance.
- Designed and integrated **RESTful API endpoints** to handle audio uploads and question recommendations, supporting modular expansion and smooth frontend-backend communication.

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

- Designed and developed a web-based real-time location tracker using **HTML, CSS, JavaScript**, and **Leaflet.js** for responsive and interactive map UI.
- Integrated **Mapbox API** to fetch high-precision geolocation data and render customizable map tiles.
- Implemented **Firebase Realtime Database** to store and sync live location data across multiple users/devices in real-time.
- Enabled secure **user authentication** and session management using **Firebase Authentication** to manage access and protect data.

PROJECTS

Stimulus | *Firebase, NodeJs, React, Firebase, Material Design Lite, Electron*   link

- Developed a cross-platform desktop application using Electron and Material UI to streamline marks entry, analysis, and academic reporting.
- Integrated Google Firebase for secure user authentication restricted to official @gmail.com accounts and real-time database updates, ensuring data integrity and access control.
- Enabled direct reading and parsing of Excel files to import student information and historical marks, minimizing manual input and digitizing legacy data.
- Created logic for computing per-question and per-student CO attainment, with automated PDF generation and desktop saving functionality.
- Implemented logic to compute individual and overall CO attainment metrics per student, with dynamic color-coded feedback to highlight performance levels and facilitate quick analysis.