# Abhinav kumar

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## Summary

**Detail-oriented graduate with a strong analytical mindset and experience in structured problem-solving. Possesses good communication skills, process understanding, and the ability to work accurately under targets and deadlines.**

## Skills

**Languages:** Java, C/C++, JavaScript, SQL

**Technologies & Tools:** Advanced Excel, SQL, Express, ReactJS, FastAPI, MongoDB, RestAPI, Git/Github, DSA, OOPS

## Work Experience

**Internship**                                                                                   June 2025 – Aug 2025

**Codec Technologies Pvt. Ltd., Remote — Web Developer Intern**

- Developed and maintained RESTful APIs using Express.js and Node.js to handle user authentication, conversation history logging, and AI command processing workflows. Built dynamic React components and responsive UIs using Tailwind CSS to ensure smooth voice interaction and an intuitive assistant customisation experience.
- Utilised MongoDB for scalable and structured data storage, integrating Mongoose ORM to manage user profiles, assistant preferences, and chat history schemas. Implemented secure file handling workflows using Multer and Cloudinary for managing user-uploaded avatar images with robust error handling.
- Integrated advanced third-party APIs, including Google Gemini for natural language processing (NLP) and the Web Speech API for real-time speech-to-text and text-to-speech functionality. Managed secure session-based authentication using JSON Web Tokens (JWT) and Bcrypt to ensure data.
- Refactored existing codebase to improve performance, eliminate redundancies, and follow modern JavaScript (ES6+) and React best practices. Wrote unit and integration tests using Jest and Mocha, and actively participated in code reviews to maintain high code quality.
- Refactored prompt engineering logic to enable the AI to return structured JSON responses for executing system commands such as web navigation (Google, YouTube), application launching, and real-time data retrieval (Weather, Time),. Deployed the full-stack application on Render to ensure high availability and accessibility Tech Stack: MongoDB, Express.js, React.js, Node.js, Google Gemini API, Web Speech API, Tailwind CSS, Cloudinary, JWT, RESTful APIs.
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## Education

**Manav Rachna University, Faridabad(B.Tech)**                                        Aug 2022 - Jun 2026 (7.0)

**Coursework:** Data Structure and Algorithm, Java, DBMS, C/C++, OS, Web development

## Project Work

**Video Calling, Real-Time Chat & Social App with AI Integration:**

- Developed a full-stack social web application combining video calling, real-time chat, and AI-powered course generation to deliver an engaging, personalised learning experience for users
- Implemented WebRTC and Socket.io for peer-to-peer video calls and instant messaging, ensuring low-latency, real-time communication and smooth user interaction across the platform.
- Built secure RESTful APIs using Node.js and Express.js with JWT-based authentication to manage users, messages, and courses while maintaining robust data protection and authorisation.
- Utilised MongoDB with Mongoose ORM for structured and scalable data handling of user profiles, chat histories, and AI-generated course data, ensuring efficiency and consistency in storage operations.
- Integrated OpenAI API and automated background tasks enabling personalised course recommendations, notifications, and system maintenance while optimising app performance and responsiveness.
- Tech Stack: React.js, Node.js, Express.js, MongoDB, Mongoose, WebRTC, Socket.io, OpenAI API, JWT,

## Awards and Certificates

- NPTEL Certification in Social Networking
- Full Stack Certification, LinkedIn
- React  - The Developer Guide - LinkedIn
- AWS AcademyGraduate Certification.