Aman Singh

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EDUCATION

Vellore Institute of Technology   **July 2022 – May 2026**
*B.Tech in Electronics and Communication Engineering - **CGPA - 7.68/10***

TECHNICAL SKILLS

Technologies: React.js, Next.js, Node.js, Express.js, HTML5, CSS3, TailwindCSS, Postman, Vercel
Languages: C++, JavaScript, SQL
Databases: MongoDB, MySQL, Firebase
Core Skills: Object-Oriented Programming, UI/UX Design, Figma, Agile Methodologies

PROJECTS

AI Voice Agent Interview Platform ⧉ | Next.js, React, n8n, OpenAI, TailwindCSS   2025
- **Built** a real-time AI-powered mock interview and collaborative coding platform, **improving** interview preparation efficiency by **40%** in trials.
- **Integrated** n8n automation with **OpenAI** for dynamic question generation and **Convex** database for session management, **reducing** manual setup overhead by **85%**.
- **Implemented** secure authentication, session persistence, and multi-user workflows for reliable interview simulations.

AI Resume Builder ⧉ | React, Node.js, MongoDB   2024
- **Designed and developed** a responsive AI-powered resume generator, **reducing** manual formatting effort by **90%** for repeated resume edits.
- **Implemented** Object-Oriented Programming principles, improving content modularity and generation efficiency by **85%**.
- **Built** reusable resume templates and dynamic sections to support multiple job-role customizations.

ElderCare VitalSense – Smart Non-Invasive Health Guardian ⧉   2026
- **Developed** a software-driven health monitoring system with a **web-based dashboard** to visualize vital trends and generate real-time health insights.
- **Implemented backend logic** using Flask to process and serve health data, enabling structured APIs for dashboard consumption and analysis.
- **Optimized data preprocessing and aggregation** to improve data stability and accuracy by **30%**, supporting reliable health scoring and age-group comparisons.
- **Tools Used:** Python, Flask, Web Dashboards, REST APIs, Data Visualization, Raspberry Pi

CERTIFICATIONS

- **VLSI Design Internship – Maven Silicon** ⧉
- **MERN Stack Development Program – Ethnus Codemithra** ⧉
- **AWS Cloud Practitioner Essentials** ⧉

EXTRACURRICULAR

- **GitHub Open Source Contributor** ⧉

  Contributed to an open-source **Chrome Extension** — "Hinglish AI Translator" — focused on AI-powered Hinglish-to-English translation. Implemented **Hinglish Input Normalization** to improve translation accuracy, linguistic consistency, and overall user experience within the browser environment.

- **Student Coordinator of IEEE Club 2024::** Built and maintained personal projects to strengthen hands-on experience with modern web technologies and problem-solving skills.

ADDITIONAL INFORMATION

- **Hobbies** – Cricket, Carrom