

AMAN SINGH

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EDUCATION

Vellore Institute of Technology

July 2022 – May 2026

B.Tech in Electronics and Communication Engineering 7.7/10

SKILLS

Languages: Python, SQL, C++

Data & Analytics: Data Analysis, Data Cleaning, KPI Tracking, Insight Generation, MySQL

Technologies: React.js, Node.js, Express.js, HTML5, CSS3, API Integration

Core Concepts & Tools: Requirement Analysis, Feature Prioritization, Object-Oriented Programming, Git, GitHub, Power BI, AWS (Fundamentals)

PROJECTS

ElderCare VitalSense – Smart Non-Invasive Health Guardian ↗

2025

- **Developed** a Raspberry Pi-based health monitoring system to collect and analyze physiological signals, achieving **92% signal accuracy** in controlled testing.
- **Integrated** biomedical sensors with real-time data acquisition and preprocessing pipelines, reducing signal noise and improving data stability by **30%**.
- **Built** analytical dashboards for trend visualization and comparative analysis, enabling **40% faster insight generation**.

AI Voice Agent Interview Platform ↗ | Next.js, React, n8n, OpenAI, TailwindCSS

2025

- **Designed and implemented** data-driven workflows to process interview session data and user interaction metrics, improving preparation efficiency by **40%**.
- **Automated** data handling and workflow orchestration using APIs and automation tools, reducing manual configuration effort by **85%**.
- **Analyzed** system performance data to improve reliability, session consistency, and multi-user coordination.

AI Resume Builder ↗ | React, Node.js, MongoDB

2024

- **Developed** a structured application to process and organize resume data, reducing manual formatting and rework by **90%**.
- **Applied** Object-Oriented Programming principles to improve modularity, maintainability, and processing efficiency by **85%**.
- **Implemented** role-based data templates to support consistent data presentation across multiple job profiles.

CERTIFICATIONS

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

EXTRACURRICULAR

- **GitHub Open Source Contributor** ↗
Contributed to the open-source Chrome Extension “Hinglish AI Translator”, enhancing AI-powered translation accuracy and user experience. Implemented **Hinglish Input Normalization** for improved translation precision.
- **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