

# AMAN SINGH

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## EDUCATION

### Vellore Institute of Technology

B.Tech in Electronics and Communication Engineering **7.7/10**

July 2022 – May 2026

## 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