

### SKILLS/CERTIFICATION

Programming Languages	C/C++, JavaScript, Typescript, Python, Java
Tools & Platforms	Git, GitHub, Vercel, Firebase, Linux, AWS
Frameworks & Libraries	React.js, Next.js, Node.js, MongoDB, Springboot
Certification	AWS Cloud Practitioner, MERN Stack

### PROJECTS

#### Food Order Website

- **Frontend Development** - Utilized HTML, CSS, and Bootstrap to create a responsive and visually appealing user interface. Implemented JavaScript for interactive elements.
- **Backend Development** - Leveraged PHP to handle server-side scripting, including user authentication, session management, and secure handling of form submissions. Designed and implemented RESTful APIs to facilitate communication between the frontend and backend.
- **Database Management** - Constructed a **MySQL database** to store and manage user data, order details, and menu items. Ensured data integrity and optimized queries for efficient data retrieval and manipulation.
- **User Registration and Login**: Built secure user authentication and authorization systems with password encryption.
- **Menu Display and Ordering**: Developed menu page with over **20+** dishes and beverages to choose from.
- **Order Management**: Implemented an intuitive order placement and tracking system, enabling users to view their order history and current status.
- **Admin Panel**: Created an admin dashboard for managing menu items, processing orders, and viewing user activity.

#### ASL Translator

- **Natural Language Processing (NLP)**: Utilized Python and NLTK libraries to process and analyze audio inputs. Implemented algorithms to convert spoken language into text, followed by text-to-sign language translation. High accuracy rate of 95%.
- **Animation Development**: Used Flutter to create over 100+ dynamic and engaging animations representing sign language. Integrated the Flutter animations into the web interface to display the corresponding sign language gestures for the translated text.
- **Backend Development**: Built the server-side using the MERN stack (MongoDB, Express.js, React.js, Node.js). Implemented APIs to handle audio input processing, text translation, and animation data retrieval.
- **Frontend Development**: Employed HTML and JavaScript to design a user-friendly web interface. Integrated React.js for a responsive and interactive user experience, enabling users to input audio and view sign language animations in real-time. Average response time of under **500 milliseconds**.
- **Database Management**: Leveraged MongoDB for efficient storage and retrieval of text translations and animation data. Ensured data integrity and optimized queries for fast response times.

#### VR Tours

- **Virtual Reality Development**- Utilized Unreal Engine 5 (UE5) to create highly detailed and interactive VR environments. Integrated Oculus SDK for seamless VR experience and interactions.
- **Full-Stack Web Development** - Utilized the MERN stack (MongoDB, Express.js, React.js, Node.js) to build a scalable and efficient web application. React.js was used for developing dynamic and responsive user interfaces. Increasing user satisfaction by 50% in reviews.
- **Immersive VR Tours**: Created interactive VR experiences where users can navigate through virtual spaces, interact with objects, and receive information in real-time. 95% form exhibition in college.
- **Content Management System (CMS)**: Developed a CMS for managing VR content, allowing administrators to upload new VR scenes, update existing ones, and manage user data.
- **Real-Time Data Sync**: Implemented real-time data synchronization between the VR client and backend services to ensure up-to-date information and seamless user experience.

### EDUCATION

#### Vellore Institute of Technology

Bachelor of Technology in Information Technology — 7.5 CGPA

**Coursework**: Algorithms and Data Structures, Operating System, Database Management Systems, Computer Networks.

#### Cambridge Court High School

Senior Secondary — 90.0%

#### Cambridge Court High School

Junior Secondary — 95.5%

July 2021 — June 2025

Bhopal, Madhya Pradesh

April 2019 — April 2021

Jaipur, Rajasthan

May 2009 — April 2019

Jaipur, Rajasthan

### ACTIVITIES

Organiser at VRGC Game JAM

Top 3 participants of NEWS WIZ by India Today News Channel

Representative at Infosys Work Group