

# SACHINANDAN

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## Education

**Indian Institute of Information Technology**

*B.Tech in Computer Science Engineering*

**Nov. 2022 – Present**

*Bhopal, M.P.*

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Systems
- Object-Oriented Programming system
- Computer Architecture
- Database Management
- System Design

## Experience

**CodeSoft**

*Front End Developer Intern*

**Remote**

*Oct. 2023 – Nov. 2023*

- Contributed to front-end development of a web application using JavaScript and the React framework.
- Worked with Google Firebase to manage user-submitted data across multiple platforms, including web and mobile apps.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.

## Projects

**E-commerce Web App | MERN** [GitHub](#) [🔗](#)

- Developed a comprehensive e-commerce website using the MERN stack featuring a robust architecture and dynamic user interface.
- Implemented over 30+ controllers to handle various operations including product management, user interactions, and order processing, ensuring a seamless user experience.
- Integrated an admin panel for streamlined management of products, orders, users, and site content, providing extensive control over the site's operations.
- Implemented authentication and authorization mechanisms to secure user data and restrict access to sensitive areas of the application, enhancing overall security.

**DensityVista Web App | ReactJS(typescript)** [GitHub](#) [🔗](#) [Live](#) [🔗](#)

- \* Developed a web application using the Reactjs to visualize population density data using GeoJSON and OpenLayers technology.
- \* Implemented interactive features to display density data on a map interface, leveraging GeoJSON datasets and OpenLayers for geographic visualization.
- \* Utilized React with TypeScript for frontend development, ensuring type safety and efficient component management.
- \* Integrated Chart.js to present population density trends and statistics graphically, enhancing data visualization and user engagement.

**Ntube | JavaScript, Node.js** [GitHub](#) [🔗](#)

- Developed a Node.js backend for a video platform similar to YouTube, featuring essential functionalities such as video upload, like, comment, and share capabilities.
- Implemented 35+ APIs for video management, user interactions, and social features, ensuring robust and responsive performance.
- Secured user data with JWT-based authentication and authorization, managing access to platform functionalities.
- Integrated Multer for efficient file uploads, enabling seamless video content management.
- Designed and implemented a refresh token mechanism for maintaining user sessions and enhancing security and user experience.
- Added a Twitter-like section to foster community engagement through short updates and interactions among users.

**Flight Booking System | C++** [GitHub](#) [🔗](#)

- Developed a full-fledged Flight Booking System in C++ using object-oriented principles.
- Implemented a selection mechanism allowing users to book flights based on their travel preferences and availability.
- Engineered for modularity, maintainability, and scalability to support large-scale operations, ensuring robust performance.
- Integrated file handling for persistent storage of flight and booking data, ensuring data integrity and accessibility.

## Technical Skills

**Languages:** Python, C++, C, JavaScript, TypeScript, SQL

**Developer Tools:** VS Code, Postman

**Web Development:** HTML, CSS (Tailwind and Bootstrap), JavaScript

**Libraries/Frameworks:** React.js, Next.js(Redux Toolkit), Node.js, GitHub, FastAPI, Express

**Tech Stacks:** MERN Stack (React.js, Express, MongoDB, Node.js)

**Soft Skills:** Leadership, Communication Skills

## Achievements

Secured 25th rank in the Unstop Contest.

Achieved 2-star coder status on [CodeChef](#), demonstrating proficiency in algorithmic problem-solving and coding challenges.

Secured under 150 rank in CodeRush organized by the college.