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My Portfolio

## Technical Skills

### Programming languages:

- Python, C, JavaScript, HTML, CSS

### Web Development and Frameworks

- Full Stack Web Development, React, Django, Node.js, Bootstrap, Tailwind CSS, Responsive Design, Web Development

### Database Management

- MySQL, MongoDB, Atlas

### Data Science and Machine Learning

- Machine learning using Python, TensorFlow, Pandas, and Numpy

### Software Development Practices

- Object-Oriented Programming (OOP), code reusability, code optimization, error handling

### Version Control and Collaboration

- Git, GitHub, and Version Control

### API Development and Integration

- API integration, REST APIs, Postman

## Education

01/2024

**BE:**

COMPUTER SCIENCE

**AI - Ameen Engineering College**

GPA: 7.96/10.0

07/2020

**Higher Secondary Education:**

Bio-Maths

**P K P Swamy Matric HSS**

## Links

- <https://www.linkedin.com/in/sanjaykumarpadma23/>
- <https://github.com/sanjaykumarsmrt>

# Sanjay Kumar

## Personal Summary

Driven JavaScript Developer with a track record of deploying innovative web solutions, including a full-stack Airbnb clone at LitzTech. Skilled in React, Node.js, and API integration, with a knack for enhancing user experiences. Demonstrates strong problem-solving abilities and a commitment to code optimization, reflecting a blend of technical prowess and strategic thinking.

## Experience

### LitzTech - Front-End Development Intern

- Developed a full-stack Airbnb clone with React.js for the front-end
- Created a real-time weather app using React.js and Node.js that fetches data from the Open Weather API
- Implemented user authentication with Passport.js
- Created a booking system and included a rating/review system for users to share feedback

### TRONSTRIDEFZC - JavaScript Developer

- Utilised Node.js for the back-end
- Optimised the user experience and data flow
- Utilised Google Maps API to allow users to search for properties by location and filters

## Projects

Airbnb Clone, Developed a full-stack Airbnb clone with React.js for the front-end. Weather App, Created a real-time weather app using React.js and Node.js that fetches data from the Open Weather API. Netflix Clone, Built a Netflix clone using React.js for the front-end, Node.js for the back-end, and MongoDB for user and content management. Sign Language Recognition and Translation App, Developed a mobile app using Flutter for sign language recognition, utilising TensorFlow Lite for gesture classification and Flutter TTS for real-time speech translation. Green Hydrogen Optimization, Research on performance of renewable energy systems, particularly in the production of green hydrogen.

## Publications

- A Novel Ensemble Machine Learning Approach for Optimising Sustainability, Research on optimising energy production and system efficiency.
- Comparing Machine Learning algorithms to predicting operating hydrogen, Leveraged Pandas for handling and analysing time-series data.

## Tools And Platforms

- **Version Control & Collaboration:** Git, GitHub
- **API Development & Testing:** Postman, REST APIs
- **Web Development & Frameworks:** Node.js, React, Bootstrap, Django, Flutter
- **Databases & Data Management:** MongoDB Atlas, SQL
- **Data Science & Machine Learning:** Pandas, NumPy, TensorFlow
- **Programming Languages:** Python, C, JavaScript, HTML, CSS