

SANJAY KUMAR

Computer Science Engineer and Master's Student

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SUMMARY

I am a computer science engineer who is presently pursuing a master's degree in information management at Chaoyang University of Technology. I derive pleasure from developing software, websites, and Neural Networks, and I am consistently enhancing my abilities in cloud computing, data potential of artificial intelligence (AI) and data-driven technologies to enhance the sustainability and intelligence of manufacturing. I aspire to continue my education and develop solutions that have a tangible effect on the global community.

EXPERIENCE

Front-End Development Intern

LitzTech

01/2023 - 04/2023 Erode, India

A technology solutions provider focusing on front-end development

- Developed responsive UI components using React.js and Tailwind CSS
- Improved website performance and accessibility by optimizing front-end logic

Software Development Intern

Tron Stride FZC

05/2023 - 08/2023 Dubai, UAE

A company specializing in software development and mobile applications

- Contributed to JavaScript and Flutter-based projects for mobile app development
- Enhanced backend services using Node.js and MongoDB for scalable data management

Android App Development Intern

ATmega Software Technologies

03/2024 - 04/2024 Erode, India

AT mega Technologies is an IT solutions company specializing in software development, embedded systems, IoT, and AI.

- Developed Android applications using Java/Kotlin, improving UI/UX and functionality.
- Gained hands-on experience with Android Studio, API integrations, and debugging techniques. Applied best practices in mobile app development, enhancing performance and usability.

EDUCATION

Department of Information Management

Chaoyang University of Technology

03/2025 Taichung, Taiwan

Bachelor of Engineering in Computer Science Engineering

Al-Ameen Engineering College, Anna University

08/2020 - 05/2024 Tamil Nadu, India

SKILLS

Python, HTML, CSS, Data Structures, Django, Flutter, Git, GitHub, JavaScript, LSTM, MongoDB, ML Algorithms, NumPy, Pandas, Predictive Analytics, React, SQL, Tailwind, TensorFlow, Node.js, Pandas, API

KEY ACHIEVEMENTS



Published Research Paper

Published research paper in Elsevier Journal, showcasing my contributions to sustainable technology



published paper (Link)

A Novel Ensemble Machine Learning Approach for Optimizing Sustainability and Green Hydrogen Production.

DOI:

<https://doi.org/10.1016/j.renene.2025.122369>



Technical Clubs Contributor

Actively participated and contributed to technical clubs and hackathons, LeetCode, demonstrating leadership and teamwork



Open-Source Contributor

Contributed to various open-source projects in Machine Learning and Web Development

PROJECTS

Sign Language Recognition & Translation App

An application that recognizes and translates sign language in real-time

- Built a real-time AI-powered app using Flutter and TensorFlow Lite
- Integrated CNN, RNN, and LSTM models to improve gesture recognition accuracy

Green Hydrogen Optimization Using Machine Learning

A project focused on optimizing green hydrogen production through machine learning

- Developed predictive analytics models for energy efficiency using Python
- Applied ML algorithms to forecast and optimize renewable energy production

Full-Stack Airbnb Clone

A full-stack application mimicking Airbnb functionalities

- Designed a React.js & Node.js platform with MongoDB & Firebase authentication
- Implemented Stripe payment gateway and dynamic property listings

E-Commerce Website

An e-commerce platform with real-time functionalities

- Built a scalable full-stack system with React.js, Node.js, and MongoDB
- Integrated real-time inventory tracking, secure checkout, and user authentication