

Ujjwal Kumar

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Professional Summary

MCA student with strong foundations in software engineering, back-end development, and problem-solving. Skilled in Java, SQL, and JavaScript, with hands-on experience in building full-stack web applications. Experienced in creating scalable back-end systems, developing RESTful APIs, and writing clean, modular code. Proficient in data structures and algorithms, debugging, and performance optimization. Seeking a role as a Software Engineer, Back-end Developer, Analyst Trainee / Technology role.

Technical Skills

Languages: Java, JavaScript

Backend: Node.js, Express.js

Frontend (Basic): React.js

Databases: SQL, MongoDB

Tools: Git, GitHub, VS Code

CS Fundamentals: OS, DBMS, Computer Networks

Experience

Full Stack Development Intern | Codveda Technologies (Remote)

Nov 2025 – Dec 2025

- Implemented end-to-end MERN stack features by developing secure REST APIs with optimized CRUD operations, improving back-end response time by 30%.
- Designed and integrated JWT authentication with bcrypt hashing and enabled real-time communication using Socket.io.

Computer Science Instructor Intern | Filo (Remote)

Jun 2023 – Jan 2024

- Delivered over 200 hours of live Java and Computer Science instruction to 50+ students, maintaining a 95% satisfaction rating.

Projects

Padharo – Travel Stay Booking Platform

Jan 2025 – Mar 2025

Tech: JavaScript, Express.js, MongoDB

[Link](#)

- Enhanced the back end with authentication and CRUD operations.
- Built RESTful APIs for listings, category filtering, and reviews, improving user experience.
- Designed a modular architecture using controllers, routes, and middleware for scalability.

EcoPredict AI – Carbon Footprint Tracker

Oct 2025 – Present

Tech: JavaScript, MongoDB, Express.js, React.js, Node.js, OpenAI API

[Link](#)

- Developed an AI-powered MERN platform to calculate and monitor user carbon footprints with secure REST APIs and optimized MongoDB schemas.
- Integrated OpenAI API and machine learning models for emission forecasting, personalized recommendations, and insights.
- Created a user-friendly React dashboard for visualizing CO2 trends, daily footprints, prediction graphs, and AI-driven suggestions.
- Applied analytical and quantitative techniques to assess data trends and prediction performance.

Education

Vellore Institute of Technology

Sept 2024 – May 2026

Master of Computer Applications (MCA) | CGPA: 8.92

Magadh University

May 2020 – May 2023

Bachelor of Computer Applications (BCA) | CGPA: 7.9

Certifications & Achievements

[Introduction to Networking \(NVIDIA, 2025\)](#)

[Oracle Cloud Infrastructure Foundations Associate](#)