

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**, **Full-Stack Developer**, or **SDET**.

Technical Skills

Languages: Java, SQL, JavaScript

Frameworks: Node.js, Express.js

Databases: MySQL, MongoDB

Tools: Git, VS Code

Experience

Full Stack Development Intern

Nov 2025 – Dec 2025

Codveda Technologies

Remote

- 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

Jun 2023 – Jan 2024

Filo

Remote

- 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, ML Prediction

[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.

Education

Vellore Institute of Technology — MCA

Sept 2024 – May 2026

GPA: 8.92

Magadh University — BCA

May 2020 – May 2023

GPA: 7.9

Certifications & Achievements

Introduction to Networking (NVIDIA, 2025)

Oracle Cloud Infrastructure Foundations Associate

Interests

Technology: AI, Machine Learning.

Community: Volunteering, social initiatives.