

Abhinav Kumar Jha

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EDUCATION

JIS College of Engineering

Bachelor of Technology in Information Technology

• CGPA : **7.93**

Kalyani, Nadia

August 2023 – June 2027

EXPERIENCE

India Meteorological Department – RMC Kolkata, Alipore

Kolkata, India

Project Intern

May 2025 – June 2025

- Developed **Vristhi**, a real-time rainfall visualization system using FastAPI, Python, Redis, and React for dynamic radar data display.
- Converted .vol radar files to **NetCDF format**, enabling standardized processing and visualization.
- Collaborated on cloud deployment and designed an animated, user-friendly UI for real-time weather insights.
- Collaborated in backend development with a teammate to streamline data flow, optimize performance, and ensure smooth frontend integration.

TECHNICAL SKILLS

Programming Languages: C++ (DSA), Python, JavaScript, C

Backend Development: Node.js, Express.js, FastAPI, REST APIs

Frontend Development: HTML, CSS, JavaScript, React.js (basic), Responsive UI

Database & Cloud: MongoDB, Google Cloud Platform (GCP), Vercel, basic AWS (EC2/S3)

DevOps & Tools: Docker, Git, GitHub, VS Code, Postman

Others: API Integration, Debugging & Optimization

PROJECTS

Vristhi – Real-Time Rainfall Visualization Tool

- Developed a web-based system for real-time radar-based rainfall visualization using FastAPI and React.
- Processed .vol radar files into NetCDF format and visualized data using wradlib, xarray, and globe.gl.
- Implemented rain/no-rain animations and responsive UI with user interaction via OpenFeatureMap.
- Deployed the project with Redis backend support and cloud integration for scalable data access.
- **Tech Stack:** Python, FastAPI, React.js, Redis, xarray, wradlib, globe.gl, OpenFeatureMap, Google Cloud, AWS (basic)

Node Dev – Blogging Platform for Developers

- Created a full-stack blogging web app allowing developers to post content with photos, headlines, and descriptions.
- Implemented secure user authentication (signup/login/logout) and dynamic content rendering.
- Added “All Posts” and responsive Home Page with clean UI for mobile and desktop users.
- Focused on modular architecture, real-time updates, and multi-user session handling.
- **Tech Stack:** Node.js, Express.js, MongoDB, HTML, CSS, JavaScript, Vercel, GitHub

CERTIFICATIONS

Decode C++: Mastering Data Structures and Algorithms – PW Skill