

Jyoti Ranjan Rout

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Skills

- **Programming Languages:** Java (Strong), C, C++
- **Frontend/Backend:** React.js, Node.js, Express.js, HTML5, CSS3, MERN stack, Bootstrap, Tailwind CSS
- **Databases:** MongoDB, MySQL
- **Cloud Services:** AWS (S3, DynamoDB, EC2, Rekognition, API Gateway, etc.)
- **Tools & Technologies:** Git, GitHub, VS Code

Project Work

Generative AI Web Application (React.js) (2025)

- Implemented a conversational **AI web application** using **React.js** with **Large Language Model (LLM) API integration** for real-time text generation and contextual question answering.
- Incorporated **chat history** and **message streaming** to manage state and ensure continuous conversation flow with real-time responses.
- Optimized **API requests**, improving response time by **20%**.
- Introduced **dynamic UI components** and robust **error handling** to enhance user experience and reliability.

Cloud-Based Face Recognition Attendance System (AWS) (2025)

- Developed a cloud-based **biometric attendance platform** using **React.js, Node.js, AWS Rekognition, and DynamoDB** for scalable data storage.
- Implemented **QR code backups** and **automated attendance reports**, reducing manual effort by **90%**.
- Employed a **mobile-friendly UI design**, increasing adoption among students by **80%**.
- Successfully delivered **5 project milestones** within **4 weeks**.

Vehicle Rental Management System (MERN Stack) (2025)

- Engineered a **full-stack** vehicle rental platform using the **MERN stack** (React.js, Node.js, Express.js, MongoDB).
- Collaborated within a **3-person agile team** in a **full-stack role**, leveraging technologies across the MERN stack.
- Led frontend development, creating a responsive **React UI** for vehicle search, filtering, and real-time availability tracking.
- Contributed to backend development, implementing **RESTful APIs** for vehicles and bookings, which helped reduce average query time by **30%**.
- Merged **ImageKit.io** for **CDN image storage** within the UI, cutting page load time by **40%**.
- Assisted in building the owner **dashboard** functionality to manage listings and bookings.

Education

Centurion University, Bhubaneswar

Aug 2024 - Present

Master of Computer Applications

CGPA: 9.17/10

Relevant Coursework: Object-Oriented Programming, Database Management Systems (DBMS), Operating Systems, Data Structures, Algorithms.

Utkal University, Bhubaneswar

Aug 2021 - Jul 2024

Bachelor of Science (B.Sc) in Chemistry

CGPA: 7.71/10

Relevant Coursework: Organic, Inorganic, and Physical Chemistry; Industrial and Environmental Applications; Laboratory Experiments and Research Projects.

Coding Profiles and Certificates

- **GeeksforGeeks:** 100+ problems solved
- **Apna College:** Certificate of Completion for Alpha (DSA with Java) course

[View Certificate]