

ANMOL MANGARAJ

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Education

National Institute of Technology, Rourkela 2022 – Present
Bachelor of Technology in Computer Science and Engineering (CGPA: 8.70/10) *Odisha, India*

ODM PUBLIC SCHOOL, Bhubaneswar July 2020 – July 2022
Intermediate (97.2%) *Odisha, India*

Relevant Coursework

- Data Structures and Algorithms
- Database Management Systems
- Object Oriented Programming
- Design and Analysis of Algorithms
- Operating Systems
- Compiler Design

Experience

Research Intern May 2024 – Present
NIT Rourkela, CSE Department *Odisha, India*

- Spearheaded the design and implementation of a C++ compiler, leveraging critical thinking and team collaboration to enhance security protocols and reduce vulnerabilities by **30%**

Projects

Sthitivartana Website | *React, Vite, GraphQL, Apollo* | [Website Link](#) — [Project Link](#) Feb 2024

- Spearheaded a team in building a scalable web application for a news platform, achieving **200K** organic views through enhanced SEO optimization.
- Integrated GraphQL and Apollo Client to streamline data-fetching processes, reducing server load by **15%**.

Geolocation Tracking App | *ReactJS, Leaflet, MongoDB* | [Website Link](#) — [Project Link](#) May 2024

- Led the development of a real-time geolocation tracking application, demonstrating problem-solving and attention to detail to improve logistics efficiency by **40%**
- Implemented advanced map-rendering features using Leaflet, ensuring **50%** faster updates and seamless user experience.

Achievements

Smart India Hackathon 2024 Winner | [Project Link](#) | [Certificate Link](#) Dec 2024

- Won **Smart India Hackathon 2024** by developing an AI-powered Swachhta monitoring dashboard using **YOLO, TensorFlow, Next.js, Express.js, MongoDB, WebSocket, and Power BI**.

Codeutsava 8.0 2nd Runners Up | [Project Link](#) Nov 2024

- Secured **3rd prize at Codeutsava 8.0 Hackathon** for developing an AI-driven social media app targeting drug trafficking communications, built using **React, Express.js, Socket.io**

Hackathon Finalist - Innovathon, NIT Rourkela | [Github Link](#) Mar 2024

- Secured top 5 position at FTBI Innovathon, NIT Rourkela, by developing a Warehouse Management System using **Express.js and MongoDB**, specializing in backend architecture.

Frontend Development Course - Coursera | [Certificate Link](#) Nov 2024

- Completed **Frontend Development Course** on Coursera with distinction

Technical Skills

Languages: Java, Python, Javascript, Typescript, HTML/CSS, C, SQL, Solidity

Technologies/Frameworks/Libraries: ReactJS, Next JS, Express JS, FastAPI, Socket.io, Crypto JS, Hardhat, EtherJs

Database: MySQL, MongoDB

Version Control: Git, Github

Extracurricular Activities

GDSC NIT Rourkela Aug 2024

Tech Lead

NIT Rourkela

- Directed the completion of **5** projects for technical clubs and private agencies, cultivating a culture of technical excellence and teamwork, which led to a **30%** reduction in project turnaround time and improved client satisfaction.