SANKALPA PANDA

DOB: 24 Aug 2005   Rourkela Odisha

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Education

National Institute of Technology, Rourkela	**Aug 2023 – Present**
B.Tech in Industrial Design (CGPA: 9.01) — Minor in CSE (CGPA: 8.63)	*Rourkela, Odisha*
DAV Public School, Bandhbahal	**May 2023**
AISCCE – CBSE, Science (PCM) (Percentage - 96.8%)	*Jharsuguda, Odisha*
Belpahar English Medium School	**May 2021**
CISCE – ICSE (Percentage - 96.8%)	*Jharsuguda, Odisha*

Relevant Coursework

- Data Structures and Algorithms
- Object Oriented Programming
- Database Management System

Work Experience

AirAce Technologies   **Jun 2025 – August 2025**
Software Developer Intern   *Bhubaneswar, Odisha*

- Developed and deployed a production-grade **NTRIP Caster–Client system** for real-time GNSS data streaming, boosting geospatial accuracy by **40%**.
- Engineered a scalable and modular frontend architecture for the GNSS desktop application using modern UI frameworks, reducing UI-related bug reports by 30% and improving overall performance and user experience .
- Collaborated with backend and hardware teams to optimize **real-time data streaming** and reduce latency, ensuring seamless **GNSS integration**.

Projects

MusicListener   **May 2025 – Jun 2025**
MERN Stack, Tailwind CSS, Cloudinary, JWT   *GitHub*

- Built a full-stack **music streaming platform** with secure **Admin/User authentication**, real-time **playback**, and **playlist management** for 30+ tracks.
- Implemented **JWT authentication** with HTTP-only cookies for role-based access control and application **security**.
- Integrated **Cloudinary** for media storage, reducing image load times by **40%** and enabling **playlist CRUD operations**.

Sales Management System   **Mar 2025 – Apr 2025**
React, TypeScript, MySQL, Node.js, Tailwind CSS   *GitHub*

- Developed a full-stack **CRM system** with **15+ CRUD modules** to manage **sales, customers, inventory**.
- Optimized **MySQL queries, indexing, and joins** to handle 1,000+ records with 50% faster performance.
- Delivered a responsive **dashboard UI** and built scalable **RESTful APIs** for real-time synchronization.

Achievements/Certifications

- **Hackfest'25 – IIT(ISM) Dhanbad**   **Certificate**
  2nd Place in Atom-HR Problem Statement among **100+** teams.
- **CodeClash'25 – National Coding Competition**   **Certificate**
  Ranked **480/4000+** participants nationwide.

Technical Skills

- **Languages**: C, C++, Python, JavaScript, TypeScript, HTML, CSS, MATLAB, SQL
- **Frameworks/Technologies**: React.js, Node.js, Express.js, MongoDB, MySQL, Tailwind CSS, Git, Cloudinary, JWT Auth, Google Cloud Platform
- **Developer Tools**: VS Code, MySQL Workbench, GitHub
- **Core Skills**: Data Structures & Algorithms, REST API Development, Responsive UI Design

Extracurricular Activities

INNOVISION – NIT Rourkela   **Nov 2024**
Event Coordinator

- Coordinated with **5+ clubs** to support **10+ events**, ensuring smooth execution.
- Led planning and management of **10+ major events**, overseeing resources and **live troubleshooting**.