

SANKALPA PANDA

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Education

National Institute of Technology, Rourkela

Bachelor of Technology in Industrial Design (CGPA - 9.00)

Minor in Computer Science Engineering (CGPA - 9.00)

August 2023 – Present

Rourkela, Odisha

DAV Public School, Bandhbahal

AISCCE – CBSE, Science (PCM) (Percentage - 96.8%)

May 2023

Jharsuguda, Odisha

Belpahar English Medium School

CISCE – ICSE (Percentage - 96.8%)

May 2021

Jharsuguda, Odisha

Relevant Coursework

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

Projects

Binary_TreeTraversals Library

December 2024

C++, VS Code

GitHub

- **Developed a C++ library** to encapsulate various binary tree traversal methods (e.g., in-order, pre-order, and level-order), aimed at simplifying tree operations and reducing redundant code.
- **Designed with reusability in mind**, the library provides a clean interface for integration into diverse projects and is hosted on GitHub with comprehensive documentation.
- **Utilized by 5+ developers**, it streamlines workflows and showcases the efficiency of encapsulated traversal techniques in real-world applications.

Sales Management System

April 2025

React, TypeScript, Tailwind CSS, Node.js, Express.js, MySQL

GitHub

- Built a full-stack **Sales Management System** with **secure authentication**, role-based access control.
- Designed a **responsive frontend** using **React.js**, **TypeScript**, and **Tailwind CSS** with pages for **Customers**, **Products**, **Sales**, **Payments**, and **Reports**.
- Developed a **scalable backend** using **Node.js**, **Express.js**, and **MySQL (Sequelize)**, enabling complete **CRUD operations** for **users**, **inventory**, and **transactions**.

Achievements/Certifications

- **Introduction to Programming using Python** December 2024
Earned a certificate from **Kaggle** for successfully completing the "Python for Data Science" programming course by completing assigned tasks and developing a strong foundation in Python programming and data analysis. Certificate
- **Modern C++ Certification** November 2024
Awarded certification from **IIT Kharagpur** via the **NPTEL** platform for achieving **95.88%** in weekly assignments and clearing the final exam with a **62%** score. Certificate
- **MATLAB Certification** September 2024
Earned a certificate from **MathWorks** for completing the course by successfully finishing all tasks. Certificate

Technical Skills

- **Languages:** C, C++, Python, HTML, CSS, Javascript, MATLAB, SQL, TypeScript
- **Developer Tools:** VS Code, MySQL Workbench, Google Cloud Platform
- **Technologies/Frameworks:** GitHub, Anaconda

Extracurricular Activities

NITRUTSAV

February 2025

Coordinator

NIT Rourkela

- Collaborated with the **Event Management** and **Accommodation** team to manage **25+** events, ensuring their success.
- Oversaw accommodation of nearly **300+** people coming from various colleges for participation and enjoying in the college fests.

INNOVISION

November 2024

Coordinator

NIT Rourkela

- Collaborated with the **Requirements** team to fulfill needs for **5+** clubs and **10+** events, ensuring smooth operations.
- Played leadership role in managing and coordinating **10+** events, ensuring their success through effective resource provision.