Saubhik Dey

B.Tech. | NIT Rourkela

Final Year, Computer Science & Engg.
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Profile

A final-year Computer Science student specializing in full-stack development and real-time data processing. Proficient in C++, and Python. Seeking opportunities to contribute technical skills to innovative projects in the tech industry.

Education

2021-Present
B.TECH., CSE
NIT Rourkela
CGPA : 7.00/10

May 2021
INTERMEDIATE
D.A.V. Kapildev Public School, Ranchi
Percentage: 88.6%

May 2019
MATRICULATION
Tender Heart Senior Secondary School, Ranchi
Percentage: 88.8%

Links

Github:// **github**
LinkedIn:// **linkedin**

Skills

PROGRAMMING LANGUAGES
C, C++, Python, JavaScript

FRAMEWORKS AND LIBRARIES
ReactJS, Node.js, Socket.io, OpenGL

TOOLS AND PLATFORMS
Git, Docker, OSG Earth, Cmake

OPERATING SYSTEMS
Windows, MacOS, Linux (Ubuntu, Kali)

LANGUAGES
English, Hindi, Bengali

Relevant Courses

Data Structures and Algorithm
Discrete Mathematics
Database Management System (MSSQL, MySQL)
Design and Analysis of Algorithms
Object Oriented Programming
Operating Systems

Work Experience / Projects

2024 **DRDO (INTEGRATED TEST RANGE)**   **SDE Summer Intern**
Developed a real-time 3D object tracking system using C++, OpenGL, and OSG to monitor high-speed objects like missiles. Integrated geospatial data for dynamic updates and improved terrain visualization. Optimized tracking accuracy by 15 percent and enhanced rendering efficiency with Level of Detail (LoD) techniques. Built the system using CMake for scalability and smooth defense system integration.

OpenGL, OSG, OSG Earth, Cmake, C++

2024 **Mini E-commerce Cart System**   **PROJECT**
Developed a C++ command-line application utilizing Object-Oriented Programming (OOP) to efficiently manage a shopping cart. Users can add, remove, and view products, apply dynamic discounts, and checkout with total costs in multiple currencies.

2023 **No History Chatroom Project**   **PROJECT**
Developed a private chat room website using Socket.io, ReactJS, ExpressJS, and Tailwind. Enabled secure, real-time conversations without saving chat history. Demonstrated expertise in web development and real-time communication systems.

2022 **Netflix Home Page Clone**   **PROJECT**
Developed a clone of the Netflix home page using HTML, CSS, and JavaScript. Improved front-end design and applied responsive web design techniques.

Achievements / Certifications

2023 **Machine Learning with Python and Sklearn**   **DEVTOWN**
Completed a bootcamp on machine learning with Python and Sklearn, and received a course completion certificate from Google Developers Student Club and Microsoft Student Ambassador Program.

2023 **React and JavaScript**   **DEVTOWN**
Completed a bootcamp on React and JavaScript with DEVTOWN, and received a certificate from Google Developers Student Club and Microsoft Student Ambassador Program.

Extra Curricular Activities

2022-23 **Cadet, National Cadet Corps**   **NCC**
Led a team of cadets at national-level camps, focusing on character, leadership, and discipline development.

2022-23 **Volunteer, National Service Scheme**   **NSS**
Volunteered in workshops for social welfare, promoting social consciousness and responsibility through community service.

2023-24 **Tech Head, NITRUTSAV**   **TECH - FEST**
Led a 50+ member team for NITRUTSAV's tech events, managing logistics and sponsorships. Curated workshops and competitions for over 2,000 participants.