

DHRUTINANDAN SWAIN

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Education

National Institute of Technology, Rourkela

Bachelor of Technology in Mining Engineering (CGPA - 7.51)

August 2023 – July 2027

Rourkela, Odisha

DAV Public School Unit-8, Bhubaneswar

AISCCE – CBSE, Science (PCM) (Percentage - 92.4%)

May 2022

Bhubaneswar, Odisha

DAV Public School Unit-8, Bhubaneswar

AISSE – CBSE (Percentage - 96.4%)

May 2020

Bhubaneswar, Odisha

Relevant Coursework

- Full Stack Development
- Database Management
- Computer Networks
- Linux and Shell Scripting

Work Experience

Campa Cola

Decemeber 2024 – January 2024

Freelance

Remote

- Architected and deployed **CampaFlow**, a full-stack investment management platform using Next.js, Firebase, REST API, and MongoDB, successfully scaling to support 2000+ active users.
- Implemented an admin portal handling 100+ daily verifications, featuring real-time analytics dashboard and streamlined user management workflows.
- Architected a robust user registration system with role-based authentication, enabling 2000+ investors to self-categorize across 5 investment categories.
- Designed an automated billing system processing 500+ monthly invoices with integrated email notifications using Render for efficient stakeholder communication.

Projects

Innovision-2024

October 2024 – November 2024

NextJs, GraphQL, Firebase, Cloudinary

Site

- Developed the official Innovision 2024 website for NIT Rourkela, catering to 1000+ users with event details.
- Built admin dashboard for 100+ event coordinators to manage registrations, participants, and event analytics.
- Designed efficient GraphQL schema with custom resolvers, reducing API calls by 40% and improving query performance by 20% through optimized data flow.

Plastrack

Febuary 2025 – March 2025

Nextjs, Expressjs, Firebase, Gemini, Docker, Google Cloud Platform

Site

- Developed an AI-powered waste management platform optimizing collection, sorting, and recycling
- Engineered AI system with 90%+ accuracy in waste identification, supporting sustainable infrastructure
- Integrated real-time map hotspots and gamification to enhance community participation

Minare 2025

July 2024 – August 2024

NextJs, Firebase, Cloudinary

Site

- Developed **Mining Engineering Society's Minare 2024** website, serving **100+ active users** with real-time event tracking and registration.
- Built a **secure admin portal** for event management, participant tracking, and registration analytics.

Technical Skills

- **Languages:** Typescript, JavaScript, Python, HTML/CSS, MySQL
- **Operating Systems:** Linux (Ubuntu)
- **Developer Tools:** VS Code, Vim, Bash, Docker, MySQL Workbench
- **Technologies/Frameworks:** GitHub, ReactJs, NextJs, ExpressJs, Hono, GraphQL, MongoDB, PostgreSQL

Extracurricular Activities

Google Developer Students Club

December 2023

Full Stack Developer

National Institute of Technology, Rourkela

- Engineered full-stack website for SRC 2024 using ReactJS, GraphQL and Firebase serving 100+ users.
- Developed Innovision 2024 fest website with NextJS, GraphQL, MongoDB and Firebase serving 1000+ users.
- Led training sessions on Open Source, Hacktoberfest and Git/GitHub fundamentals, engaging 200+ participants.

OpenCode Club

November 2023

Full Stack Developer

National Institute of Technology, Rourkela

- Led hands-on Cybersecurity workshop focused on SQL injection, training 50+ students in security best practices
- Built OpenChase 2024 treasure hunt platform using NextJS, engaging 100+ participants
- Led operations for two major hackathons (**HackInno 2024**, **HackNITR 5.0**) with 500+ total participants, managing 36-hour event logistics and participant coordination.