

Soumya Ranjan Sahoo

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Objective

BTech Computer Science student with a strong foundation in programming, problem-solving, and cybersecurity. Seeking opportunities to leverage my knowledge in data structures, algorithms, and cybersecurity practices to contribute to projects with robust backend functionality, security measures, and efficient database management.

Skills

- Programming Languages: Python, C, Java, JavaScript
- Cyber Security & Hacking: Vulnerability assessment, penetration testing, white hat hacking, network security fundamentals
- Linux: Risk analysis, Threat analysis, Python Scripting, Automation/DevOps, Reverse Engineering
- Version Control: Git, GitHub
- Backend & Databases: Firebase, SQL, RESTful API integration, data security
- Tools & Technologies: Brupsuit WebSockets, Wi-Fi Direct
- Soft Skills: Problem-solving, critical thinking, teamwork, communication

Projects

BillBuddy: A Trip Expense Management App

📁 BillBuddy

- Developed a command-line application to help groups track shared expenses during trips.
- Users can add payments, calculate balances, and settle debts.
- Tools Used: Python, CSV

Note Management App

📁 Note Management App

- Developed a responsive note management system for college students using HTML, CSS, and JavaScript.
- Allowed students to store, organize, and retrieve academic notes efficiently.
- Tools Used: HTML, CSS, JavaScript

Netflix Clone Website

📁 Netflix

- Developed a responsive web clone of Netflix with key user interface features.
- Integrated Firebase for real-time data updates and managed user interactions.
- Technologies Used: Firebase, HTML, CSS, JavaScript

Two-way Control App (In Progress)

📁 2WayCtl

- Built communication protocols with WebSockets and WebRTC for robust connectivity.
- Exploring backend options to improve security and speed with USB tethering and peer-to-peer connections.
- Technologies Used: ebSockets, Wi-Fi Direct, WebRTC

Personal Portfolio Website

📁 Portfolio

- Designed and developed a personal website to showcase my skills, projects, and certifications.
- Implemented responsive design for a user-friendly experience across devices.
- Tools Used: HTML, CSS, JavaScript

Education

Synergy Institute of Engineering and Technology, Dhenkanal

2023 - 2027

BTech in Computer Science and Engineering

- **Coursework:** Data Structures, Algorithms, Cybersecurity, Web Development, Software Engineering

Certifications

- 🔗 Introduction to Data Science in Python – Coursera
- 🔗 Introduction to Generative AI - Coursera
- 🔗 HTML and CSS: Building a Single-Page Website - Coursera
- 🔗 Introduction to Front-End Development - Coursera

Professional Interests

- Cybersecurity and Ethical Hacking
- Backend Development and Data Security A
- Advanced Networking Protocols and Peer-to-Peer Systems

Extracurricular Activities & Achievements

- Self-paced Cybersecurity Training – Focused on white hat hacking and network security.
- Programming Competitions – Participated in online coding
- Challenges to strengthen algorithmic and problem-solving skills.