Subodh Kumar Sahu

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EDUCATION

Bachelor of Engineering (Computer Science & Engineering)   Nerul, Navi-Mumbai

Terna Engineering College; Grade - 78% till 6th semester   Oct 2022 - Currently
Atomic Energy Central School No.-3, Mumbai; Grade - 88% in 10th   April 2010-May 2021
Atomic Energy Central School No.-4, Mumbai; Grade-*74.8%* in 12th   April 2020-March 2022

SKILLS SUMMARY

- **Languages**   Python, C, C++ , Java , JavaScript
- **Frontend**   HTML 5, CSS 3, Tailwind CSS, Bootstrap, React.Js, Typescript
- **Backend**   Node Js, Express Js, Mongo DB, MySQL
- **Other Skills**   DSA, Git & Github, AWS, Hosting, SEO, Docker, CICD pipeline, 40+ wpm, Video Editing
- **Soft Skills**   Presentation, People Management, Excellent communication

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INTERNSHIP

Software Development Internship | BARC, Trombay   **June 2025 – July 2025**

Robotic Control and Programming: Developed and implemented the control software for a Robotics Bionic Handusing C++ programming, focusing on motion control and kinematic routines.

Advanced Communication Protocol: Engineered the UART bridge concept to establish reliable serial communication, facilitating the crucial interface and control pathway between the core system and the Kinova robotic arm.

Accelerated Career Readiness: Acquired specialized, portfolio-worthy experience in advanced robotics control, significantly enhancing C++ programming proficiency and boosting readiness for roles in automation and embedded systems development

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PROJECTS

Face Recognition Attendance Management System |LINK   **July 2023 – March 2024**

Developed Face Recognition Attendance System: Engineered an automated attendance system using Python (OpenCV) for real-time facial detection and a MySQL database for student data management, including CRUD and CSV export functionalities

Streamlined Educational Administration: Created a secure, efficient solution to replace manual attendance, aiming to reduce errors and improve administrative processes for educational institutions.

Job Application Portal | LINK   **Aug 2024 – March 2025**

Full-Stack Web Application Development (MERN): Designed and built a secure, scalable Job Application Portal using the MERN stack (MongoDB, Express.js, React.js, Node.js). The platform supports three distinct user roles (job seekers, company admins, and super admins) , implementing secure authentication, role-based access control, and data encryption.

Streamlined Recruitment and User Experience: Developed core functionalities including advanced job search filters , efficient profile and application management for job seekers , and a dashboard for employers to post jobs, manage listings, and track applications in a streamlined manner

Recipe Web-Scrapper | LINK   **June 2025-July 2025**

Python Web Scraping Development: Developed a Python-based web scraper utilizing libraries like BeautifulSoup (or Scrapy) to efficiently parse HTML and extract structured recipe data, including ingredients, instructions, and preparation time, from various online sources.

Automated Data Collection Solution: Created an automation tool to streamline the collection of large-scale, high-quality recipe data, providing a foundation for building applications such as recipe databases, meal planners, and food-related analytics platforms.

Crowdfunding App using Smart Contract | LINK   **April 2025 – July 2025**

Blockchain-Based Crowdfunding Platform: Developed a decentralized Crowdfunding Application leveraging blockchain technology and smart contracts to enable secure, transparent, and immutable fund collection directly between creators and backers, eliminating intermediaries

Secure & Transparent Transaction Logic: Implemented smart contract logic to automate and enforce funding rules, manage contributions, and ensure transparent disbursement of funds, thereby enhancing trust and efficiency in the crowdfunding process.

AI Adaptive Cyber-Honeypot |LINK   **June 2025 - Currently**

Inspection Proxy: Built a full inspection proxy gateway using FastAPI and Nginx to analyze all incoming traffic and dynamically redirect attackers to honeypot environments.

Honeypot Model: Engineered advanced payload inspection and adaptive real/honeypot routing to automate threat detection and improve incident analysis.
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