

# NISHANT SAHU

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## SUMMARY

Technology student with a strong foundation in C++, Linux environments, and networking fundamentals. Eager to apply problem-solving and technical skills to a career in IT security and auditing. Experienced in developing security-focused projects involving threat monitoring, firewall configuration, and access control implementation. Familiar with concepts in network security, system monitoring, and information security management.

## WORK EXPERIENCE

### WEB DEVELOPER-INTERN, InternChain

Dec 05, 2024 - Jan 05, 2025

- Developed a real-time Collaborative Whiteboard supporting multi-user interaction with features like remote cursors, sticky notes, and text input.
- Integrated image and PDF handling, along with undo/redo functionality, ensuring a dynamic and interactive user experience.
- Built and optimized REST APIs and front-end responsiveness for seamless collaboration across desktop, tablet, and mobile platforms.

## SKILLS

- Security & Networking:** Linux (Shell Scripting, Firewall Configuration, System Monitoring), Network Security Fundamentals, Information Security Concepts, IT Controls, REST API Security.
- Programming & Databases:** C++, Python, Object-Oriented Programming, Data Structures & Algorithms, JavaScript, Node.js, MongoDB, MySQL.
- Developer Tools:** React.js, Git, Express.js.
- Soft Skills:** Critical Thinking, Problem-Solving, Team Collaboration, Adaptability, Time Management.

## PROJECTS

### LINUX-BASED NETWORK THREAT MONITORING TOOL

- Designed and implemented an automated threat detection and prevention control for a Linux server, using fail2ban and logwatch to mitigate SSH brute-force attacks and ensure system integrity.
- Audited and configured iptables firewall controls to enforce network segmentation, aligning with the principle of least privilege to minimize the system's attack surface.
- Developed shell scripts to automate security monitoring and response procedures, including event logging and real-time alerts, simulating key Security Operations Center (SOC) functions.

### NISHCARE | MERN STACK HOSPITAL MANAGEMENT SYSTEM

- Developed a full-stack hospital management web application with secure login, patient registration, and appointment scheduling features using MongoDB, Express.js, React.js, and Node.js.
- Implemented role-based authentication with JWT to differentiate access for patients and administrators, ensuring data protection and controlled functionality.
- Designed a responsive and intuitive user interface with React and CSS, improving user experience and system usability across devices.

### LAPTOP PRICE PREDICTOR | ML-POWERED WEB APPLICATION

- Built an end-to-end machine learning model using Python and Scikit-learn to predict laptop prices based on specifications like brand, processor, RAM, and storage.
- Performed feature engineering, data preprocessing, and trained regression models with performance evaluation using  $R^2$  and RMSE.
- Developed and deployed a responsive web app using Streamlit and Heroku, enabling real-time price prediction through a user-friendly interface.

## EDUCATION

### BACHELOR OF TECHNOLOGY

Thakur College of Engineering and Technology

2022- Present

- Specialization in Artificial Intelligence And Data Science
- CGPA - 8.17/10** (Semester-6)

### SENIOR SCHOOL(12TH)

Mithibai College of Arts, Commerce and Science

passed: 2022

- Specialization in PCM.
- Score - 61%

### HIGH SCHOOL(10TH)

St.Aloysius English High School, Bhayander (East), Thane

passed: 2020

- Score - 89.40%

## OTHER

- Certifications:** Power BI from Udemy (December 28, 2023)