

# S HEMENDRAN

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## Professional Summary

Cybersecurity-focused developer skilled in building secure web apps, deploying cloud solutions, and implementing intelligent threat detection tools.

## Education

### Hindustan Institute of Technology and Science, Chennai

Nov 2022 - May 2026

CGPA - 8.22

## Experience

### Precision Infomatics - Cloud Developer Intern

June 2025 – July 2025

- Monitored and maintained AWS resources (EC2, S3, VPC), improving reliability and uptime by 60%
- Automated deployment and monitoring processes using python scripts to reduce manual effort and errors.

### Tata Cybersecurity Analyst Program Security Analyst Intern

May 2025 – June 2025

- Assessed IAM strategies and implemented security controls for identity and access management.
- Created detailed documentation and presentations to effectively explain complex cybersecurity concepts.

### Box Office Studios — Security Analyst Intern

June 2024 – July 2024

- Conducted network and system security assessments across 20+ endpoints using tools like Nmap and Nessus.
- Assisted in implementing security recommendations, reducing vulnerabilities and improving system compliance.
- Prepared audit reports highlighting vulnerabilities and misconfigurations, ensuring 100 % compliance.

## Projects

### FinWise - Finance Management System - [GitHub](#)

- Developed a full-stack financial management platform using Next.js, MongoDB, and Docker for deployment.
- Built an interactive web dashboard with dynamic charts and visualizations to help users track their finances.
- Integrated AI to scan bills, analyze spending patterns and generate personalized insights.

### Decentralized Voting Application - [GitHub](#)

- Developed a decentralized voting platform on the Ethereum blockchain, ensuring transparency and integrity.
- Provided a public ledger for real-time transparency, allowing for an independent audit of all election results.
- Implemented Solidity smart contracts to automate vote-counting and prevent tampering, ensuring reliability.

### Secure File Transfer – Chaotic-Key Encryption and Entropy Based QR Steganography - [GitHub](#)

- Developed a secure file transfer system using chaotic-key encryption for dynamic key generation.
- Used entropy-based QR steganography to safely embed and transmit encrypted data.

### Predictive URL Threat Assessment using ML - [GitHub](#)

- Developed a Machine Learning-driven tool for the automated, real-time detection of Malicious URL.
- Improved detection efficacy by training the tool on domain-specific patterns extracted from URL analysis.

## Technical Skills

**Skills and Languages:** Python, Java, SQL, JavaScript, HTML, CSS.

**Frameworks and Libraries:** React, Express.js, Node.js.

**Tools and Platforms:** Git, AWS, Docker, Linux, CI/CD, Power BI.

**DB:** MongoDB, MySQL, FireBase.

**Concepts:** Data Structures and Algorithms, OOPS, DBMS, Computer Networks, System Design.

## Certifications and Achievements

- Finalist - IBM ICE Day Hackathon – *IBM ICE*, 2025
- MongoDB for Students – *MongoDB*, 2025
- Docker Foundations Professional – *Docker*, 2025
- Microsoft Security Essentials – *Microsoft*, 2025
- Penetration Testing Professional – *cybrary*, 2025