

# S HEMENDRAN

[hemendrankumar@gmail.com](mailto:hemendrankumar@gmail.com) | +91 8428863842 | [linkedin](#) | [github](#) | [leetcode](#) | [portfolio](#)

## Professional Summary

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

## Education

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**Hindustan Institute of Technology and Science, Chennai**

*Nov 2022 - May 2026*

CGPA - 8.22

## Experience

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**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

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**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

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**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

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- **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