

SWAMINATHAN S

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Career Objective

A highly motivated individual with a foundational understanding of core cybersecurity principle. With a strong commitment to developing technical skills and staying informed on evolving industry trends. Seeking the opportunity to contribute to cybersecurity initiatives and grow within a professional environment.

Education

B. Tech CSE with Specialization in Cybersecurity,

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

09/2021-06/2025 Chennai

CGPA: 8.74

XII CBSE, SRI CHAITANYA TECHNO SCHOOL

Percentage: 85%

04/2020-04/2021 Bengaluru

Skills

Cybersecurity Tools: Wazuh (SIEM), IDS/IPS, Wireshark, Nmap

Programming Languages: Python

Operating System: Windows, Linux

Cyber Security Concepts: Principles of Network Security, Authentication and Authorization, SIEM, Identity and Access Management.

Cloud Fundamentals (AWS Core Services, IAM, EC2, S3)

Analytical and Critical Thinking

Adaptability and Quick Learning

Attention to Detail

Teamwork and Problem Solving

Projects

Optimized Intrusion Detection for Cloud security using Hybrid Feature Selection with Machine Learning 01/2025 – 04/2025

- Developed a machine learning based Intrusion Detection System for cloud environment
- Used Random Forest as primary algorithm with a hybrid feature selection approach to obtain high accuracy and robust intrusion detection.
- Tested using well known metrics to analyse the performance of the Intrusion detection system.
- Evaluated IDS performance using Accuracy, Precision, Recall, and F1-score and achieved 99.4% accuracy in DDoS detection with improved accuracy

Enhancing Cybersecurity Threat Detection using SIEM through Real-time Analysis 06/2024 – 12/2024

- Implemented an open source SIEM environment to analyse and detect threats in real-time.
 - Strengthened real-time threat detection and automated incident response through advanced rule tuning and cross-tool integration.
 - Integrated SIEM with data sources for centralized log correlation and monitoring
 - Executed evaluations using standard metrics to improve the monitoring efficiency of Wazuh SIEM.
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Certifications

AWS Certified Cloud Practitioner

Google Cyber Security Professional Certificate

Introduction to Cybersecurity - Cisco Academy

Cyber Security Capstone: Case Study, Cyber Security virtual experience (Mastercard)- Coursera

Introduction to cyber security- Cybray

Python Essentials, AWS cloud practitioner- Udemy

Achievements: Research Publication, "Optimized Intrusion Detection for Cloud Security Using Hybrid Feature Selection", *IRJMETS*, Vol. 07, Issue 04, DOI: <https://www.doi.org/10.56726/IRJMETS7308>