



SUMMARY

Motivated and results-driven Information Security graduate seeking a challenging position as an Application Security Analyst within an innovative organization. Offering a strong foundation in cybersecurity strategy, threat analysis, and risk management, with a proven ability to enhance security measures, deliver successful outcomes, and collaborate within cross-functional teams. Proficient in leveraging AI, machine learning, and software development techniques to identify vulnerabilities, automate threat detection, and build predictive security solutions, while contributing to secure application design and development practices in a rapidly evolving digital landscape.

PROFESSIONAL EXPERIENCE

Reflections Infos Systems Pvt Ltd

Mar 2024 - November 2024

Intern

- Developed and integrated custom security rules for SonarQube to identify vulnerabilities in codebases.
- Implemented security scanning tools for web applications, identifying open ports and vulnerable endpoints.
- Built and configured a remote desktop access solution for WSL2, enabling secure access to Linux systems.
- Automated web scraping tasks for API data security analysis using Python and asynchronous programming tools.
- Worked with the OWASP ZAP tool to perform security assessments on web applications.
- Created and tested custom SAST (Static Application Security Testing) tools to identify security issues in Python code.

Kerala Police Academy

June 2022 - July2022

Intern

- Evaluated and analyzed the strength of various cryptographic algorithms, ensuring data integrity and confidentiality in secure applications.
- Assessed encryption techniques to determine their effectiveness against potential security breaches and cryptanalysis.
- Gained practical exposure to data security protocols, focusing on maintaining security standards for sensitive data in law enforcement applications.
- Worked on implementing secure cryptographic practices within real-world applications to safeguard against unauthorized access.

POCS

Repo: <https://github.com/soorajpsuresh74>

Event Ticket Management:

- Developed an efficient ticket generation and management system for Onam celebrations, streamlining attendee registration, ticket issuance, and event entry through automated QR code validation.
- Implemented an Onam ticketing platform with an admin dashboard, enabling real-time participant tracking, secure ticket generation, and automated notifications to enhance event coordination.

Packet Sniffing with Python:

- Developing a packet-sniffing tool using Python libraries such as pcapy, pypcap, or winpcapy.
- Addressed challenges with low-level network packet capture on Windows, including library compatibility issues.

Custom Static Application Security Testing (SAST) Tool:

- Extended the functionality of Flake8 and SonarQube by developing custom plugins and rules to Built a SAST tool aimed at identifying security and styling issues within codebases.
- Integrated this into the development process to maintain secure coding standards and improve robustness.

SonarQube Plugin Development

- Created a custom plugin to add new security rules, specifically focusing on Python code analysis.
- Developed classes like BanditRepository and custom rules to integrate Bandit security checks with SonarQube.

Performance Analysis and JMeter Testing

- Conducted load testing with JMeter, setting up scenarios with multiple threads and iterations.
- Focused on metrics such as response times and throughput, and experimented with custom data aggregation and visualization.

CERTIFICATIONS

- Certified Ethical Hacker - ongoing
- Linux Crash Course - Udemy
- AWS Certified Cloud Practitioner
- Oracle Cloud Infrastructure Generative AI Professional
- Certified Blockchain Associate
- ISRO - Completed course focusing on AI and ML techniques for analyzing geospatial data

SKILLS

Languages :	Python, Java, Dart, JavaScript, SQL, HTML
Technologies :	Flask, Fastapi, QtDesigner, Nodejs, Streamlit, aws
Version Control Systems :	Git, Github, Gitlab
Development Tools :	PyCharm, IntelliJ, VSCode, Postman, Jupiter
Database :	PostgreSQL, MongoDB
Operating Systems :	Linux, Windows

EDUCATION

MSc in Computer Science (Specialization in Cyber Security)
Digital University of Kerala | 2022 - 2024

BSc in Computer Science (Specialization in Cyber Forensics)
Mahatma Gandhi University | 2019 - 2022
