DIVAS A S

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PROFILE SUMMARY

I'm a final-year BE student with a specialization in cybersecurity, with experience in C, Go, and Python programming languages and experience as the technical lead of the OWASP Sathyabama Student Chapter, indicating strong problem-solving skills. Ranked in the top 1% on TryHackMe, indicative of proven aptitude for critical thinking and high interest in offensive security. Participated in Capture The Flag (CTF) challenges, indicative of skills in reverse engineering, forensics, linux, and cloud security. Has a good understanding of network security and encryption protocols, acquired through academic work and practical experience. Aspiring to be a bug bounty enthusiast, looking to utilize my skills in addressing real-world problems and working in the dynamic and fast-paced cybersecurity arena.

TECHNICAL SKILLS

- C, Go & Rust
- Python & SQL
- Bash & Asm (x86 & Arm)
- Security Tools & Networking
- Internet of Things

SOFT SKILLS

- Problem Solving
- Critical Thinking
- Time Management
- Teamwork

TOOLS

- Burp Suite
- Nmap
- Wireshark
- Metasploit
- BinaryNinja

EDUCATION

Sathyabama Institute of Science and Technology, chennai **2022 - 2026**

Bachelor of Computer Science and Engineering with specialization in Cyber Security

CERTIFICATIONS

- Cyber Security 101 - TryHackMe **December, 2024**
- The Advent of Cyber 2024 - TryHackMe **December, 2024**
- Jr. Penetration Tester - TryHackMe **January, 2025**

ACHIEVEMENTS

CTF in TECHNOSUMMIT (Sathyabama University) - secured second place **September, 2023**

RootMe CTF (Sri Valliammai Engineering College) - secured third place **March, 2023**

ICMNWC-IEEE Conference **December, 2023**

BaitNet: A Deep Learning Approach for Phishing Detection

Delivered seminal research on "BaitNet: A Deep Learning Approach for Phishing Detection" at the ICMNWC-IEEE Conference in December 2023. Used a character-level tokenizer with a Convolutional Neural Network (CNN) to enable novel phishing detection, thus actively contributing meaningfully towards the discussion on deep learning innovation in the field of cybersecurity.

SIH-Smart India Hackathon 2023 [Finalist] **December, 2023**

Analysis and identification of malicious mobile applications :

Implemented neural networks and Open-Source Intelligence (OSINT) methods to identify and inspect malicious Android application packages, This application identifies malicious mobile applications using a deep learning model, VirusTotal API, and static and dynamic analysis. It scans APK files for malware indicators.

PROJECTS

Rust Parse:

Leveraged Rust’s ownership model and zero-cost abstractions for memory-safe parsing with robust error handling using Result and Option. Implemented comprehensive unit tests (cargo test), Rustdoc documentation, and integrated CI/CD with Cargo and GitHub Actions for automated linting, formatting, and builds.

Vulnerability Scanner:

Applied Rust's ownership system and zero-cost abstractions to deliver memory-safe parsing with robust error handling using Result and Option. Implemented comprehensive unit tests and Rustdoc documentation and configured CI/CD using Cargo and GitHub Actions for automatic formatting, linting, and building.

Mini Projects

- Port Scanner in Rust for network security,
- A text editor like Vim using Rust,
- An RSA text encryption web application for secure messaging in Golang, and a password generator that generates secure passwords in Go and Python. Also, there exists a home automation system, NAS(Network-attached storage) with Raspberry Pi

EXPERIENCE

Hacktify Cyber Security **10 Feb 2025 - 10 March 2025**

HCS - 1 Month Penetration Testing Internship

- Conducted comprehensive security tests for Cross-Site Scripting (XSS), Cross-Origin Resource Sharing (CORS), HTML Injection, Insecure Direct Object References (IDOR), SQL Injection, and Cross-Site Request Forgery (CSRF) in controlled laboratory environments and identified and exploited vulnerabilities within application defenses.
- Active demonstration of cybersecurity skills through solving Capture-the-Flag (CTF) challenges in Reverse Engineering, Cryptography, Web 2.0, Open-Source Intelligence (OSINT), and Network Forensics. This is a demonstration of practical application of advanced security principles as part of the final stage of the internship.
- Systematically recorded and analyzed security vulnerabilities, e.g., weekly formal reports that contained attack vectors, remediation recommendations, and compliance with industry-standard security practices.

LANGUAGES

- English
- Tamil