Rama Ramana Sharma Parnandi

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Summary

A highly driven cyber security enthusiast who is passionate about learning and has a strong desire to defend and mitigate from online dangers. In a difficult and dynamic setting, passionate about leveraging security tools to proactively safeguard systems in complex environments.

Education

The Ohio State University, Masters in Computer Science and Engineering — Sept 2024 – 2026(Expected)

- **Coursework:** Algorithms, Software Engineering for Artificial Intelligence

VIT-AP, Bachelors in CSE with specialisation in Networking and Security — Sept 2020 – July 2024

- GPA: 8.89/10 (Transcript)
- **Coursework:** Programming with Java, Data Structures and Algorithms, Cybersecurity, Digital Forensics, Network Security, Secure Coding

Excellencia Jr College, High School — Sept 2018 – Aug 2020

- GPA: 10/10
- **Coursework:** Maths, Physics, Chemistry

Experience

AI Security Intern, DigitalFotress – VIT-AP, India — Dec 2023 - June 2024

- Deployed and monitored honeypots, enhancing detection rates by 70% and reducing response times for flagged activities
- Deployment of research based honeypots, setting up logging and monitoring system
- Developed an alerting mechanisms for the attacks detected using honeypots, Wazuh, OpenSearch, T-Pot
- Prepared an extensive security checklist to secure a AI/ ML Pipeline

GRC Intern, CyRAACS – Bengaluru, India — Oct 2023 - Feb 2024

- Contributed insights in team meetings that advanced innovative problem-solving strategies
- Participated in professional development opportunities to enhance skill set, contributing to overall intern growth and potential future employment prospects
- Understanding and auditing based documents like ISO 27001:2022, NIST 800

Projects

Blocking Malicious IP's using Suricata (link)

- Implemented a python code that fetches malicious IP's using a API call of AbuseIPDB and writes a rule file for suricata, which works as an IPS system Tools Used: Python, Suricata

SIEM, Alerting System (link)

- Implemented a cutting-edge SIEM solution utilising open-source tools such as HELK to proactively identify and mitigate Zerologon Vulnerability Tools Used: HELK, ElastAlert, Docker, Kafka, Winlogbeat

Advance Pcap Xray (link)

- Implemented automated Pcap Analysis (Automated Pcap Xray v2) tool which produces an interactive graph with details like ISP info and maliciousness of the actor/IP Tools Used: Python, AbuseIPDB, PcapXray, Zeek

Automated Pcap Xray Tool (link)

- Enhanced Pcap Xray Tool and implemented it to make interactive graphs and determine the geo location of the IP address using API calls, pcap file or packets are collected using zeek Tools Used: Python, AbuseIPDB,

PcapXray, Zeek

Deriving Strength of a Password (link)

- A program for identifying strength of a given password using encrypting and decrypting algorithm Tools Used: Java, AES, DES

UBA (User Behavior Analysis) using ELK Stack and Beats (link)

- Deploying ELK with FileBeats for User Behaviour Analysis Tools Used: ELK, Beats, Apache2, Zeek

Basic Car Rental System (link)

- Developed a Basic Car Rental System, enabling efficient car bookings, customer management, and payment processing. Tools Used: MySQL, PHP, HTML, CSS

Client Server Program (link)

- DA java program to transfer .zip files of large size from server to client using java.net package Tools Used: Java

Portfoilio (link)

- An interactive portifolio created using HTML, CSS, PHP Tools Used: HTML, CSS, PHP

Certificates

Foundations of Cybersecurity - Google and Coursera (link)

- Identify how security attacks impact business operations
- Identify common tools used by cybersecurity analysts
- Skills: Cybersecurity, Information Security (INFOSEC), Ethics in cybersecurity, NIST Cybersecurity Framework (CSF), Historical Attacks

Cloud Security Fundamentals - Palo Alto Networks (link)

- Basic principles for protecting cloud and SaaS-based applications using Secure Access Service Edge architecture, as well as identifying concepts for recognizing and potentially mitigating attacks on traditional and hybrid datacenters and mission critical infrastructure
- Skills: Cloud Computing Security, Malwares, Denial-Of-Service Attack (DOS), Enterprise Private Network

Data Structures and Algorithms using Java - Infosys (link)

- Java, knowledge of data structures and algorithms and implementation using java
- Skills: Java, DSA

Basic Java - HackerRank (link)

- Knowledge on Java
- Skills: Programming with Java

Introduction to Cybersecurity Tools and Cyber Attacks - Coursera and IBM (link)

- How to apply key cybersecurity concepts, tools, and methodologies to protect digital and physical assets
- How to recognize various types of threat actors and malware and explore preventive measures
- Skills: OWASP, ISSA, IP Spoofing, Penetration Testing, Digital Forensics

Introduction to Ethical Hacking - Great Learning Academy (link)

- Introduction to Ethical Hacking, Process flow for Ethical Hacking, Ethical Hacking Techniques, Domains under Ethical Hacking
- Skills: Broken Authentication, SQL Injection, XSS attack

Technologies and Skills

Languages: Java, Python, Swift, SQL, JavaScript, C

Technologies: XCode, ELK, OpenSearch, Suricata, Zeek, Cowrie, Wazuh, Word, Excel, AWS

Skills: Ubuntu, Kali Linux, IDS, IPS, Honeypots, System Configuration, Ubuntu Server, UBA, SIEM, Cybersecurity, Digital Forensics, Reporting