Adithya Rajendran

adithyaraj@gmail.com | +1 (510) 509-4903 | linkedin.com/in/adithya-rajendran

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IT enthusiast with a passion in cybersecurity, possessing the Security+ and AWS Solutions Architect Certifications. Skilled in penetration testing, network security, and system hardening. Committed to continuous learning and passionate about safeguarding digital assets. Working towards getting the OSCP. Excited to contribute expertise to your security and cloud efforts.

EDUCATION

University of California, Santa Cruz (UCSC)

Bachelor of Science in Computer Science   (2019 - 2023)

CERTIFICATIONS

- Offensive Security Certified Professional (OSCP) (Expected 12/2023)
- AWS Certified Solutions Architect – Associate (2023 - 2026)
- CompTIA Security+ (2022 - 2025)

PROJECTS

Virtualization Servers Deployment
Description: Deployed a RHEL server and a second server running VMWare ESXi that runs virtual machines using the QEMU/KVM platform and remote management platforms for a headless installation.
Skills: Virtualization, Remote Management, VMware ESXi, Red Hat Enterprise Linux (RHEL)

Container Host
Description: Set up and managed a container host environment using Podman, allowing for efficient containerized application deployments and scaling.
Skills: Containerization, Docker, Podman, Container Orchestration, Scalability, Resource Management.

NAS Server
Description: Hosted a RAID 6 NAS server with automatic backups. The server runs a Nextcloud container and sits behind a reverse proxy.
Skills: RAID, Network Attached Storage, Data Protection, Data Encryption, Access Control Lists (ACLs).

Snort3 NIDS
Description: Devised and implemented a Network Intrusion Detection System (NIDS) with Snort3. Orchestrated real-time monitoring of network traffic, triggering alerts for suspicious activities via custom rules.
Skills: Network Intrusion Detection System (NIDS), Snort3, Firewalls, Port Mirroring.

Active Directory Lab
Description: Set up a domain controller and multiple clients. Configured Group Policies to match the corporate environment. Practices AD Attack techniques and their mitigation.
Skills: Active Directory. Group Policy, NTLM, Bloodhound, Pass the Hash, IPv6 Attacks

Participation in HackTheBox and TryHackMe platforms
Description: Conquered diverse challenges spanning web application and network penetration testing, cryptography, Nmap, and offensive security techniques
Links: HackTheBox: https://app.hackthebox.com/users/514798
        TryHackMe: https://tryhackme.com/p/Cagmas
Skills: Web application security, Network penetration testing, Cryptography, Nmap, Offensive security techniques, Active Directory exploitation, Vulnerability assessment

AWS-hosted Web App
Description: Hosted a React web app that collects data from social media websites and transforms it to charts for better analysis. The app utilized AWS Cognito for user authentication and Amplify for hosting.
Skills: Cognito, Amplify, Amazon Web Services (AWS), React, APIs, Data Analysis, OAuth2

Programming Projects Highlights
GitHub: https://github.com/Adithya-Rajendran
Description:
- Developed a multi-threaded directory busting tool in Python, optimizing website scanning with filtering capabilities
- Implemented a multi-threaded port scanner with the ability to read multiple IPs from a file
- Engineered a Email phishing and spam filter, automatically categorizing flagged messages.
- Created a password generator with enhanced security, utilizing hash-based checks for breaches.
- Constructed an HTTP server enabling simultaneous file read and write operations, ensuring synchronization for multiple connections.

Skills: Python, Multi-threading, Email filtering and categorization, Phishing detection, Hash-based security checks, Security enhancements, IPS Evasion

EXPERIENCE

Volunteer Data Analyst
Company: RND4IMPACT Inc   **(2023 - Present)**
As a meticulous data analyst, I am responsible for maintaining comprehensive documentation of code, methodologies, and results. I am proficient in developing, refining, and implementing machine learning models using Python. My focus is on algorithm creation, model training, and performance validation. Additionally, I engage in in-depth data analysis tasks, utilizing my expertise in various tools and technologies.

Responsibilities:
- Maintained thorough documentation of work, including code, methodologies, and results.
- Developed, refined, and implemented machine learning models.
- Utilized Python for algorithm development, model training, and performance validation.
- Engaged in comprehensive data analysis tasks, leveraging various tools and technologies.

Skills: Data analysis, Machine learning, Python programming, Algorithm development, Model training, Performance validation, Documentation, Data analysis tools, Machine learning tools

SKILLS

C/C++, Python, Bash, Powershell, Linux/Unix, Kali Linux, Virtualization, Containers, Wireshark, Active Directory, Network Security, Penetration Testing, System Hardening, Red Hat Enterprise Linux (RHEL), Windows Server, Firewalls, SELinux, Data Encryption, NIDS, Snort3, Website Scanning, Hash-Based Security Checks, Web Application Security, Cryptography, Nmap, Active Directory Security, Vulnerability Assessment.