






Adithya Rajendran

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CERTIFICATIONS

- Offensive Security Certified Professional (OSCP) Expected March 2024
- AWS Certified Solutions Architect September 2023 - September 2026
- CompTIA Security+ August 2022 - August 2025
- MTA: Security Fundamentals May 2018

SKILLS

- IT Skills:** Microsoft Office, Linux/Unix, Virtualization (VMware, KVM, Xen), Docker, Active Directory, Networking, AWS (EC2, S3, RDS, Lambda), Git,
- Cybersecurity Skills:** Wazuh (SEIM), Okta, Auth0 (IAM), MITRE ATT&CK, NIST SP-800, OPNsense (Firewalls), Snort (Intrusion Detection System), Nmap, Vulnerability Assessment, Privilege Escalation, Penetration Testing,
- Software Development Skills:** C/C++, Python, JavaScript, TypeScript, Go, Django, Next.js, React, Tailwind CSS, Framer Motion, HTML, CSS, RESTful APIs, SQL (PostgreSQL, MySQL), NoSQL (DynamoDB)

WORK EXPERIENCE

Technical Consulting & Research, Inc. (TCR)

December 2023 – Present

Cybersecurity Analyst Intern

Fremont, CA

- Addressed 6+ cloud provider compliance issues via fit-gap analysis, improving regulatory adherence.
- Leveraged the MITRE ATT&CK framework to refine threat modeling processes, achieving a notable 15% reduction in system vulnerabilities and bolstering security defenses.
 - Ensured adherence to best practices for a secure infrastructure, employing security best-practices.
- Developed automation scripts in Python reducing the need to direct human work hours by 1-2 hrs. per week.
- Built demo applications in JavaScript showing the effects and operation of compliance requirements.
- Orchestrated secure authentication and authorization with Okta's Auth0, enhancing user access control.
- Delivered detailed security reports and visualizations, significantly raising non-technical stakeholder awareness.
 - Enhanced team productivity by leveraging Microsoft Office Suite for data analysis and presentation.
- Presented at the IGNITE and Bucknell University conferences on "Navigating AI Risks for Small Businesses."

RND4IMPACT Inc.

September 2023 – Present

Software Development Intern

San Jose, CA

- Spearheaded the design and implementation of web applications using Django, enhancing system functionality.
 - Configured Django to use PostgreSQL to improve compatibility and scalability.
- Designed RESTful routes and HTTP methods. Defined the database schema by establishing models/entities.
- Applied dynamic loading for TypeScript components boosting First Contentful Paint (FCP) by 2.4 seconds.
 - Prioritized loading of certain components and images to improve user experience.
 - Conducted thorough testing and fine-tuning to optimize the performance by 15% saving CPU resources.
- Implemented rigorous code review and testing protocols using Django's testing framework and TypeScript's type-checking, reducing bugs by 20% and ensuring high-quality code standards.
- Harnessed custom caching rules, attaining a 75% cache hit rate, markedly reducing load times.

PROJECTS

Home-Lab | Active Directory Lab + Wazuh SIEM

- Configured a comprehensive home lab for IT exploration and learning, focusing on virtualization, Linux/Unix, and DevSecOps practices
- Established a secure Active Directory environment to simulate and document common AD attacks, enhancing understanding of network vulnerabilities and defense strategies. Integrated Wazuh for observability

Cybersecurity Challenge Enthusiast, Top 700 on HackTheBox and Top 10% on TryHackMe

- Demonstrated advanced penetration testing and network security skills through active participation and high rankings in HackTheBox (HTB) and TryHackMe (THM)

NextJS Portfolio Website + Blogs

- Developed a personal portfolio website utilizing Next.js and React, showcasing my software development projects and technical blogs.
- Implemented server-side rendering for SEO optimization and faster page loads, enhancing user experience.

Intrusion Detection System- Go (Currently Developing)

- Developing an intrusion detection system to monitor and analyze network traffic for potential security threats using Go.
- Implementing real-time packet analysis and pattern matching to detect known attack vectors.
- Designing alerting mechanisms to notify administrators of suspicious activities.

More projects are listed on <https://adithya-rajendran.com/#projects>

EDUCATION

University of California, Santa Cruz

Graduated June 2023

Bachelors of Science in Computer Science

Santa Cruz, CA

- **Relevant Coursework:** Computer Systems and C, Cryptography, Advanced Computer Networking, Principle of System Design, Artificial intelligence, Natural Language Processing, Data Structures and Algorithms