

Ravikumar E

CYBERSECURITY ANALYST & SECURITY PROFESSIONAL

Puducherry, India

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“Innovative cybersecurity professional with expertise in threat detection, vulnerability management, and security automation. Committed to implementing robust security measures while staying ahead of emerging threats.”

Professional Summary

Security-focused professional with hands-on experience in cybersecurity operations, threat detection, and vulnerability management. Demonstrated expertise in implementing IAM solutions, conducting security assessments, and developing automated security protocols. Proven track record in virtual environments with leading tech companies, combining technical acumen with a strong foundation in security best practices.

Education

Manakula Vinayagar Institute of Technology

Puducherry, India

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

2021 – Present

- CGPA: 7.01 (up to 6th semester)
- Specialization in Network Security and Communication Systems
- Key Coursework: Network Security, Digital Communications, Information Theory, Cryptography

Acharya Siksha Mandir

Villianur, Puducherry

HIGHER SECONDARY CERTIFICATE (HSC)

2019 – 2021

- Percentage: 84%
- Stream: Computer Science

Jawahar Vidya Niketan

Villianur, Puducherry

SECONDARY SCHOOL LEAVING CERTIFICATE (SSLC)

2019

- Percentage: 80%
- Notable Achievement: Ranked 1st in class

Professional Experience

Tata Consultancy Services

Remote, India

CYBERSECURITY ANALYST | VIRTUAL JOB SIMULATION

September 2024

- Implemented comprehensive Identity and Access Management (IAM) solutions, resulting in enhanced security protocols
- Developed and executed security assessment frameworks aligned with industry best practices
- Orchestrated privilege management systems using role-based access control methodologies

Palo Alto Networks

Remote, India

CYBERSECURITY VIRTUAL INTERN

July 2024 – September 2024

- Led threat detection initiatives using advanced monitoring tools and SIEM platforms
- Developed automated security scripts for log analysis and threat response
- Implemented cloud security measures across multiple platforms

Projects

Flutter, ESP32, Blynk IoT

Hardware + Software Project

RELAYZ - SECURE SMART HOME AUTOMATION SYSTEM

2024

- Engineered a secure smart home automation system with military-grade encryption for device communication
- Implemented zero-trust security architecture for IoT device management and access control
- Developed secure firmware update mechanism and intrusion detection system for ESP32 devices
- Achieved comprehensive device protection through encrypted communication channels and secure boot verification

- Designed and implemented a comprehensive home lab environment for advanced security testing and threat analysis
- Deployed multi-layered network security architecture including pfSense firewall, Security Onion IDS/IPS, and segregated VLANs
- Configured automated vulnerability scanning pipeline using Nessus and OpenVAS with custom reporting scripts
- Maintained security logging infrastructure with ELK Stack, achieving 99.9% log collection accuracy and real-time threat detection

Shodan.io API, Python, Docker

Security Analysis Project

NETWORK SECURITY ANALYSIS TOOL

2023

- Engineered an advanced network security analysis tool leveraging Shodan.io API and custom vulnerability scanners
- Implemented automated reconnaissance and vulnerability assessment features with detailed reporting
- Developed real-time threat detection system with machine learning-based anomaly detection
- Created containerized deployment solution ensuring consistent security scanning across environments

Technical Expertise

Security Operations	SIEM Implementation, Threat Intelligence Analysis, Incident Response, Vulnerability Assessment
Cloud Security	AWS Security Services, Cloud Infrastructure Protection, Security Architecture Design
Security Tools	Splunk, Wireshark, Nmap, Metasploit, Burp Suite, Security Onion
Programming	Python (Security Automation), Bash Scripting, PowerShell, Regular Expressions
Network Security	Firewall Configuration, IDS/IPS Implementation, VPN Setup, Protocol Analysis

Professional Certifications

Google Cybersecurity Professional Certificate, Google	2024
Introduction to Cybersecurity, Cisco Networking Academy	2024
IT Specialist - Artificial Intelligence, Certiport (Pearson VUE)	2024
Python for Cybersecurity Professionals, Cybrary	2024
Project Management Fundamentals, IBM	2023

Achievements & Recognition

First Place, App Development for Education Competition	Innovation Club
Winner, Web Development Workshop	datanerdz.ai
Second Prize, State-level Symposium Code Debugging Competition	Christ Tech-2K23
Top 5 Finalist, Technovate for India Case Competition	The Times of India