

## **Jerold Anbarasan**

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## **PROFESSIONAL SUMMARY**

Cybersecurity professional with 1+ year of experience at Amazon identifying and validating high-severity security vulnerabilities in production consumer devices. M.S. Cybersecurity candidate specializing in AI-driven threat detection, SOC operations, and post-quantum cryptography, with hands-on experience building phishing detection systems and cryptographic benchmarking tools. CEH-certified with strong alignment to SOC Tier 1 and junior security engineering roles.

## **EDUCATION**

Webster University, St. Louis, MO

Master of Science in Cybersecurity (Artificial Intelligence Emphasis) | Expected May 2026

Pondicherry University, India

Bachelor of Technology in Information Technology | May 2021

## **TECHNICAL SKILLS**

Cybersecurity: SOC Tier 1 Operations, Incident Response, Threat Detection and Analysis, Vulnerability Assessment, Penetration Testing, OWASP Top 10, Secure SDLC, Risk Assessment, MITRE ATT&CK; Framework

Security Tools: Wireshark, Nmap, Burp Suite, Metasploit, Nessus, SIEM (Splunk, ELK Stack)

Systems: Linux, Windows, VirtualBox, Networking, Cloud Security Fundamentals

Programming: Python, Bash, SQL | Cryptography: AES, RSA, ECC, Post-Quantum Concepts

Analytics: Log Analysis, Power BI, Data Visualization

## **CYBERSECURITY PROJECTS**

**PhishGuard AI** – AI-based Phishing Detection Chrome Extension

- Built an AI-driven Chrome extension using Python-based NLP to detect phishing URLs and malicious content in real time.
- Evaluated 5,000+ benign and malicious URLs to identify zero-day phishing patterns and reduce user exposure to social engineering attacks.

**PQC-Sim** – Post-Quantum Cryptography Simulator

- Engineered a Python-based simulator to benchmark post-quantum cryptographic algorithms against classical RSA encryption.
- Analyzed latency and computational overhead to assess quantum-resilient security trade-offs.

## **PROFESSIONAL EXPERIENCE**

Amazon Development Center – Associate Quality Assurance | Chennai, India | Jul 2022 – Jun 2023

- Conducted security-focused QA testing for Fire TV and SMP devices, identifying 50+ high-severity vulnerabilities prior to production release.
- Partnered with DevSecOps teams to triage security defects and reduce remediation cycles by 15% through root-cause analysis.
- Integrated security checkpoints into frequent firmware releases to support secure SDLC compliance.

## **CERTIFICATIONS**

Certified Ethical Hacker (CEH) – EC-Council

Google Cybersecurity Professional Certificate

## **PUBLICATION**

Co-author, "Unearthing Principal Parameters to Improve National Institutional Ranking Framework Scores Using Deep Learning," IARJSET, 2021