Rishipal Yadav

Portfolio: rishipalyadav.github.io
LinkedIn: rishipalyadav

Email: ryadav@umd.edu
Mobile:+1(240) 927-7104

EDUCATION

- **University of Maryland, College Park** — College Park, Maryland
  Master of Engineering in Cybersecurity — *August 2022 - Present*
  Courses: *Cloud Security, Hacking of C programs and Unix Binaries, Networks and Protocols*

- **Sardar Vallabhbhai National Institute of Technology, Surat** — Surat, India
  Bachelor of Technology in Computer Engineering; GPA: 8.44 — *July 2015 - May 2019*

PUBLICATIONS

- **Preserving Location Privacy Using Blockchain**: Yadav R., Nimkarde S., Jat G., Rao U.P., Parmar D. (2020) Preserving Location Privacy Using Blockchain. In: Patel D. et al. (eds) IC-BCT 2019. Blockchain Technologies. Springer, Singapore.

SKILLS SUMMARY

- **Languages**: Python, Java, C, Bash
- **Web Skills**: HTML5, CSS, Javascript, JQuery, MySQL, MongoDB
- **Cloud Platforms**: Google Cloud Platform (GCP), Amazon Web Services(AWS)
- **Tools**: Wireshark, Burp Suite, John The Ripper, Hydra, Nmap, Nessus, ZAP, Metasploit, GoPhish
- **Security Knowledge Purview**: Access Control, Asset Security, Communication Security, Identity Management, Network Security, Risk Management, Cryptography ,Security Assessment, Security Engineering, Security Operations, Security Testing, Software Development Security, Malware, Cyber Defense, OWASP Top 10

CERTIFICATIONS AND MEMBERSHIPS

- **Google Cloud Platform**: Google Cloud Platform - Associate Cloud Engineer **(GCP-ACE)** *(Sept 2021)*
- **Associate of (ISC)²**: Provisionally Passed **CISSP** exam. *(Oct 2020)*
- **GIAC**: GIAC Security Essential Certification **(GSEC)** *(June 2020)*

EXPERIENCE

- **Cyble Inc.** — Bangalore, India
  Senior Cyber Security Specialist — *Dec 2021 - August 2022*
  - Designated **Information Security Officer (ISO)**.
  - Lead Information Security Management Systems (ISMS) implementation and maintenance for ISO 27001:2013 standard.
  - Continuously assessed security posture of the organisation. Set up and lead:
    * Vulnerability Management program
    * Incident Response process
    * User awareness training program
    * Monitoring of assets for exposure
  - Designed, deployed, ran and analysed phishing simulations periodically.

- **HSBC** — Pune, India
  Software Engineer — *July 2019 - Dec 2021*
  - Developed, deployed and managed Digital Security Platform back-end for secure authentication, authorisation and trusted device management.
  - Provided support for integration of front-end with back-end, end-to-end system integration and user acceptance testing.
  - Upgraded version of the back-end of existing Security Platform for a Direct Business Banking - UK mobile app simplifying existing flows without any down-time for 300K+ users.
  - Developed, Deployed and Tested a Proof-of-Concept of a Crypto-service API for signing and decryption of data establishing a WebSocket communication between the mule API endpoint and HSM server single-handedly.
  - Earned Secure Code Warrior - White, Yellow and Orange belt certification for detection and mitigation of software development related security risks in Java JSP based projects including OWASP Top 10 web application security risks.
  - **Cyber Champion for Wholesale IT department**: A vetted group of individuals created to reduce the dependency on the central information security team for application security.

Community Contribution

- **(ISC)²**: Community Volunteer for (ISC)²

- **Contributing Writer**: I am a contributing writer for Dark Roast Security - A medium.com Publication

- **Founder - NotYourCISO** : A security publication on medium.com

- **Member - Technical Program Committee (TPC)**:
  - Member of TPC for **International Conference on Security, Privacy and Data Analytics** to be organised in December 2022 at SVNIT, Surat.
  - Member of TPC for **International Conference on Information Security, Privacy and Digital Forensics** to be organised in December 2022 at National Forensic Sciences University, Goa/Gandhinagar Campus, India.
  - Member of TPC for **International Conference on Security, Privacy and Data Analytics** organised in December 2021 at SVNIT, Surat.

- **Guest Speaker**:
  - Topic: **Security Risk Assessment and Management**, Short Term Training Program (STTP) on Cyber Threat Intelligence and Digital Forensics in March 2021
  - Topic: **Software Development and Web Security**, STTP on Cyber Security and Penetration Testing in January 2021
  - Topic: **Industry Perspective on Cybersecurity**, STTP on Blockchain Technologies and Internet of Things in December 2020

Projects

- **Attack Surface Management**: Working with Prof. Charles Harry (UMD School of Public Policy) to develop an attack surface management for MD counties creating a dashboard for open ports for servers and websites. *(August 2022 - Present)*

- **Security Lab on Google Cloud**: Deployed various virtual machines on google cloud platform and connected the local Kali machine to access these machines. Solved pain point of keeping and managing multiple virtual machines locally causing heavy usages of memory, disk space and performance degradation. *(Sept 2021)*

- **Preserving Location Privacy using Blockchain**: Proposed a novel way to use blockchain for preserving location privacy while using location-based services. Built a web-app utilising the smart contracts to access location-based services obfuscating the actual location. *(July 2018 - May 2019)*

- **Phishing Link Detection Using Machine Learning**: A self-motivated project to learn how ML models can be used in Cybersecurity. Trained a model for various attributes linked to a website like double slash redirects, URL length, HTTPS token, age of the domain, url submitting to email, etc. This web-based project gave an accuracy of 90 percent and could be used to detect real-world phishing links. *(June 2018)*

- **Cyberoam Brute Force**: A project to show weakness in Cyberoam portal implementation allowing brute force password attack on the portal. Exploited the weakness of no minimum password length, and no account lockout after certain number of failed attempts. *(March 2018)*

Self Learning

- **Coursera**: Hardware, Software and Usable Security, Cryptography

- **Udemy**: The Complete Cybersecurity Course: Hackers Exposed, Practical Phishing Assessment

- **TCM Security**: Open Source Intelligence (OSINT) Fundamentals

- **Infosec Institute**: Security Engineering Skill Path

- **TryHackMe**: Jr. Penetration Tester, Web Fundamentals Learning Path