

# Rishipal Yadav

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## 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, Network Security, Secure Software Testing and Construction
- **Sardar Vallabhbhai National Institute of Technology, Surat** Surat, India  
*Bachelor of Technology in Computer Engineering* July 2015 - May 2019

## PUBLICATIONS

- **Measuring the Integrated Cyber Attack Surface Across US County Government Networks:** Harry, C., Sivan-Sevilla, I., McDermott, M., Yadav, R., & Daley, A. (2023, July 7). Measuring the Integrated Cyber Attack Surface Across US County Government Networks. <https://doi.org/10.31219/osf.io/hf3sn>
- **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 Scripting
- **Web Skills:** HTML5, CSS, Javascript, JQuery, MySQL, MongoDB, WordPress
- **Cloud Platforms:** Google Cloud Platform (GCP), Amazon Web Services(AWS), Microsoft Azure
- **OS:** Windows, MacOS, Linux, Unix
- **Tools:** Wireshark, Burp Suite, John The Ripper, Hydra, Nmap, Nessus, ZAP, Metasploit, GoPhish
- **Security Knowledge Purview:** Access Control, Asset Security, Identity Management, Network Security, Risk Management, Security Assessment, Security Engineering, Security Operations, Security Testing, Software Development Security, OWASP Top 10, OSINT

## CERTIFICATIONS AND MEMBERSHIPS

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

## EXPERIENCE

- **Pricewaterhousecoopers (pwc)** Washington, DC  
*Cyber security Consulting Intern* June 2023 - August 2023
  - Advised and guided a Fortune 150 client in implementing a robust Data Governance and Protection Program using BigID, integrating the solution across diverse data sources (structured, unstructured) and Microsoft Purview.
  - Built Proof of Concepts for various Microsoft Azure services and BigID integration in a lab setup.
- **Maryland English Institute** College Park, MD  
*Lab Technician* Jan 2023 - June 2023
  - Managed Maryland English Institute computer lab's IT and Network Infrastructure.
- **Cyble Inc.** Bangalore, India  
*Senior Cyber Security Specialist* Dec 2021 - August 2022
  - Led the successful implementation and maintenance of ISO 27001:2013 standard for Information Security Management Systems (ISMS) as the designated **Information Security Officer**.
  - Pioneered and managed a comprehensive Vulnerability Management Program, Incident Response Process, and Asset Exposure Monitoring, ensuring continuous assessment of the organization's security posture.
  - Fostered security-conscious culture, conducted awareness training, collaborated with cross-functional teams on best security practices, and ran phishing simulations to enhance cybersecurity.
- **HSBC** Pune, India  
*Software Engineer* July 2019 - Dec 2021
  - End-to-end development of Digital Security Platform back-end for iOS and Android mobile banking app on the Google Cloud Platform for secure authentication, authorisation and trusted device management
  - Earned Secure Code Warrior - White, Yellow and Orange belt certification for detecting and mitigating software development-related security risks in Java JSP-based projects including OWASP Top 10 web application security risks.
  - **Cyber Champion for Wholesale IT department**

## ACHIEVEMENTS

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- **(ISC)<sup>2</sup> Graduate Scholarship:** Recipient of (ISC)<sup>2</sup> graduate scholarship for pursuing graduate education in cybersecurity. Only up to 20 scholarships were awarded. (*June 2022*)

## PROJECTS

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- **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. **Tech Stack:** Python, ElasticSearch (ES) database(*August 2022 - Present*)
- **Security Lab on Google Cloud:** Deployed various virtual machines on the google cloud platform and connected the local Kali machine to access these machines. Solved the pain point of keeping and managing multiple virtual machines locally causing heavy usage 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 smart contracts to access location-based services obfuscating the actual location. (*July 2018 - May 2019*)

## COMMUNITY CONTRIBUTION

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- **(ISC)<sup>2</sup>:** Community Volunteer for (ISC)<sup>2</sup>
- **Contributing Writer:** I am a contributing writer for [Dark Roast Security](#) - A medium.com Publication
- **Founder - NotYourCISO :** A security publication on medium.com
- **Member of Technical Program Committee (TPC) for:**
  - **International Conference on Security, Privacy and Data Analytics** organised in December 2022 at SVNIT, Surat.
  - **International Conference on Information Security, Privacy and Digital Forensics** organised in December 2022 at National Forensic Sciences University, Goa/Gandhinagar Campus, India.
  - **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

## SELF LEARNING

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- **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