

Rishipal Yadav

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May 2024 graduate seeking full-time opportunities in Cybersecurity

Education

3.966/4.0 **Master of Engineering in Cybersecurity**, University of Maryland - College Park | Maryland, USA

2022-24

8.44/10 **Bachelor of Technology in Computer Engineering**, SVNIT, Surat | Gujarat, India

2015-19

Achievements: (ISC)2 Cybersecurity Graduate Scholarship | RSA Security Scholar '24

Community Contribution: Volunteer at (ISC)2 | NotYourCISO: a cybersecurity blog on medium.com

Experience

PricewaterhouseCoopers (PwC), Cybersecurity Consulting Intern | Washington, DC

June 2023 - Aug 2023

- Built Proof of Concepts for various Microsoft Azure services and BigID integration in a lab setup across diverse data sources (structured, unstructured) for data discovery and with Microsoft Purview for data sensitivity labelling for a Fortune 150 client's Data Governance and Protection Program.

Cyble, Senior Cybersecurity Specialist | Bangalore, India

Dec 2021 - Aug 2022

- Led the successful implementation of ISO 27001:2013 standard for Information Security Management Systems (ISMS) as the **Information Security Officer**.
- As a result of ISMS implementation, 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 for 100+ employees, collaborated with cross-functional teams on best security practices, and ran phishing simulations to enhance cybersecurity.

HSBC, Software Engineer | Pune, India

July 2019 - Dec 2021

- Managed end-to-end development of Digital Security Platform back-end for iOS and Android mobile banking app on the Google Cloud Platform/ on-premise 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 leading to becoming **Cyber Champion** of the department.

Maryland English Institute, Lab Technician | College Park, Maryland

Jan 2023 - Present

- Managing MEI's IT and Network infrastructure (25+ devices) and providing tech support to 20+ staff and students.
- Simplified the existing technology infrastructure by migrating the on-premise infrastructure to cloud based campus AD and onboarded to Microsoft Intune for security and compliance.

Projects

A study of collaboration between private and government sector for a broader cyber defense

Jan 2024 - Present

ENPM808: Independent Study

- Working on describing the ecosystem and frameworks of control documents and how they work both as a mandate and/or as part of a voluntary effort to improve cybersecurity. Utilising computational methods to ingest available pipeline shape files to construct a node edge model of pipelines in a single DoE PAAD district in the US and generating attack scenarios utilizing the Strategic Disruption Index (SDI) model to estimate impact of those attacks and assess the strategic risk of attacks on several points in the integrated pipeline infrastructure in the US.

Incident Response - WordPress website hack

October 2023

[Redacted]

- Investigated and responded to a WordPress website (with php) hack that happened due to a vulnerable plugin.

Attack Surface Management Dashboard for Maryland counties

Aug 2022 - May 2023

School of Public Policy, UMD

- Developed an attack surface management dashboard for open ports for public websites for Maryland counties using Python, Elastic-Search database and Censys Search APIs.
- Publication:** 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>.

Analysis of Lockheed Martin Kill Chain from attacker's and defender's point of view

Jan 2023 - May 2023

ENPM697, UMD

- Analysed various ways an attacker can attack and a defender can put countermeasures in various stages of attack life cycle described by Lockheed Martin Kill Chain with an emphasis on STRIDE threat modelling using a vulnerable application.

Skills

Certifications GCP-ACE | Associate of (ISC)2 [provisionally passed CISSP] | GSEC

Programming & Web Python, C, Java, Git, Bash, LaTeX, HTML5, CSS, Javascript, JQuery, MySQL, MongoDB, WordPress

Cloud Platforms Google Cloud Platform (GCP), Amazon Web Services(AWS), Microsoft Azure (AZ)

Tools Wireshark, Burp Suite, John The Ripper, Hydra, Nmap, Nessus, ZAP, Metasploit, GoPhish

Security Knowledge Purview GRC, Security Engineering & Operations, OSINT, Threat Modelling