Rishipal Yadav

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EDUCATION

- **University of Maryland, College Park** — College Park, Maryland
  Master of Engineering in Cybersecurity — *May 2024*
  CGPA: *3.966*
  Courses: *Cloud Security, Hacking of C programs and Unix Binaries, Secure Software Testing and Construction, Reverse Software Engineering, Digital Forensics and Incident Response, Secure Operating Systems*
  (ISC)² Graduate Scholarship: *Recipient of (ISC)² graduate scholarship for pursuing graduate education in cybersecurity. Only up to 20 scholarships were awarded.(June 2022)*
  RSA Security Scholar 2024: *Nominated by the University of Maryland - College Park as an RSA Security Scholar to represent the university at RSA Conference, 2024.*

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

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

- **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

CERTIFICATIONS AND MEMBERSHIPS

- **Cloud Security Alliance**: Certificate of Cloud Security Knowledge **(CCSK)**   *(March 2024)*
- **Google Cloud Platform**: Google Cloud Platform - Associate Cloud Engineer **(GCP-ACE)**   *(Sept 2021)*
- **Associate of (ISC)²**: Provisionally passed **CISSP** exam.   *(Oct 2020)*
- **Global Information Assurance Certification (GIAC)**: GIAC Security Essential Certification **(GSEC)**   *(June 2020)*

EXPERIENCE

- **Maryland English Institute** — College Park, MD
  Lab Technician — *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 on-boarded to Microsoft Intune for security and compliance.

- **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 the tool BigID.
  - 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.

- **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 **Information Security Officer**.
  - Continuously assessed security posture of the organisation. Pioneered and Managed:
    * Vulnerability Management Program: Conducted monthly vulnerability scans and worked with engineering team to mitigate the findings in defined timeline.

- * Incident Response Process: Created incident response playbooks for common attack categories like ransomware, phishing, application attacks etc. resulting in significantly reduced response time.
  - * User Awareness Training Program: Conducted security awareness training for 100+ employees including phishing simulations. As a result of training, phishing link clicks were reduced more than 50% with every subsequent simulation.
  - * Asset Exposure Monitoring: Monitored Censys/ Shodan for IP exposure of assets. As a result, specific security checks for asset exposure were included in the engineering deployment process.
- **HSBC**   Pune, India
  Software Engineer   *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.
  - ○ **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.

PROJECTS

- **Design Thinking Project Studio: Innovative way to design security awareness training**: As a part of AIE Innovation Fellowship at UMD, I am working on applying design thinking/ innovation tools to revamp security awareness training for effective learning..   *(Jan 2024 - Present)*

- **A study of collaboration between private and government sector for a broader cyber defense**: 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.   *(Jan 2024 - Present)*

- **Incident Response - WordPress website hack**: Investigated and responded to a WordPress website (with php) hack that happened due to a vulnerable plugin.   *(Oct 2023)*

- **Attack Surface Management Dashboard for Maryland counties**: Developed an attack surface management dashboard for open ports for public websites for Maryland counties using Python, ElasticSearch database and Censys Search APIs.*(Aug 2022 - May 2023)*

- **Analysis of Lockheed Martin Kill Chain from attacker's and defender's point of view**: Performed STRIDE Threat Modelling on a vulnerable application and studied 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. *(January 2023 - May 2023)*

COMMUNITY CONTRIBUTION

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

- **Founder - NotYourCISO** : A security blog 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 organised 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