RITVIK ARYA

📞 240-424-8946 ✉ ritvik98@umd.edu 🔗 linkedin.com/in/rtvkiz ⭘ github.com/rtvkiz

Education

University of Maryland   **Aug. 2022 – May 2024**
Master of Engineering, Cybersecurity   *College Park, MD*

National Institute of Technology, Karnataka   **Aug. 2016 – June 2020**
B.Tech in Information Technology   *Surathkal, India*

Technical Skills

Languages: Python, Bash, C/C++, SQL, HTML/CSS, JavaScript
Technologies: Kubernetes, Docker, Gitlab, AWS SQS, SNS, EC2, Boto3, Git, Oracle, Hashi Vault, Kibana, Django
Security Tools: Burp Suite, Metasploit, GDB, Ghidra, Wireshark, Amass, ZAP, OWASP tools, Nmap, DAST/SAST
Operating Systems: Ubuntu, Kali linux, Parrot OS, Windows, macOS

Experience

HackerOne   **Oct 2021 – July 2022**
Product Security Analyst   *Remote*
- Successfuly analyzed and evaluated over 2,000 security reports from web, windows, and android platforms, utilizing CVSS standards to assess the potential impact. Presented a comprehensive and actionable summary of the findings to the client, delivering a thorough understanding of their security status.
- Mitigated high-impact security risks for more than 50 customers, including SQL Injection, IDOR, subdomain/account takeovers, and business logic errors, delivering comprehensive and effective solutions for complete resolution and risk mitigation.
- Implemented automation tools in bash and python to verify low level bugs, demonstrating technical proficiency and problem-solving skills in utilizing tools like Burp Suite, Waybackurls, and Nuclei.

Oracle   **Sep 2020 – Oct 2021**
Application Engineer   *Hyderabad, India*
- Adeptly managed and developed high-performing, distributed, and fault-tolerant Python applications that efficiently migrated billions of rows of data across multiple relational databases, including Oracle, MySQL, and SQLServer.
- Improved data validation efficiency by 70% with the implementation of a quality-check service. The solution alerted developers of discrepancies and aided issue resolution with comprehensive logs.
- Streamlined code deployment across multiple environments through the use of Kubernetes, Docker, and GitLab CI/CD.

Credit Suisse   **May 2019 – July 2019**
Software Engineer Intern   *Pune, India*
- Developed a 'Single Page Application' utilizing Angular5, delivering a centralized and real-time monitoring solution for multiple services and APIs through a dashboard interface.
- Speeded up response times by 30% by retrieving results in JSON format and implementing multi-threading. Enhanced the client experience by adding features such as data filtering and grouping to multiple existing services.
- Worked on SCRUM and got acquaintance to different Agile software development methodologies.

Projects

IP Log Hunter | *Python, Git*
- Developed a fast, Python command-line tool for locating specific IPs in Apache HTTP logs, with CIDR range mapping for advanced analysis during security incidents. The solution proved invaluable in analyzing intrusions.

Directory and subdomain enumerator | *Bash*
- Designed a highly efficient Bash tool that enables bruteforce directory paths and subdomains discovery for live domains.
- The tool analyzes response code and content length to verify the status and can retrieve paths for all the listed subdomains

Certifications

Palo Alto Networks Academy Cybersecurity Foundation: Understanding of cybersecurity landscape, bot and ransomware attacks, threat modeling and digital forensics
AWS Fundamentals - Building Serverless Applications: Insights on AWS serverless architecture and its use across various services including AWS Lambda and DynamoDB

Leadership / Achievements

- Top researcher for Teemill , reported 20+ critical issues on the platform
- Hall Of Fame for Fitbit, Cloudways Bug bounty programme on BugCrowd
- Participated in PicoCTF, CSAW and Google CTF