Hritesh Sharad Sonawane

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Seasoned software <u>security engineer</u> adept at protecting systems and data
Hobbies - marathons, soccer, sci-fi movies, and anime

EDUCATION

Northeastern University, Khoury College of Computer Sciences, Boston, MA   Expected May 2024
Candidate for a Master of Science in Cybersecurity – Computer Science   GPA: 3.5/4.0
Related courses: Systems Security, Network Security, Cyberlaw, Software Vulnerabilities, CS Masters' Research
- Fall 2022 & Spring 2023: Head Graduate Teaching Assistant for Foundations of Cybersecurity
- Research: Spring 2023: Recipient of the *Khoury Research Apprenticeship* under Dr. Cristina Nita-Rotaru (NDS2 lab)
  Topic: Attacks against delay-based (TCP) congestion control protocols – awarded best CS Research project 2023

University of Mumbai, Mumbai, India   July 2022
Bachelor of Technology in Information Technology, GPA: 9.1/10.0
Related courses: Computer Networks, Cryptography, Network Security, Object Oriented Programming, Operating Systems
- Research: TORSION - Web Reconnaissance using OSINT, Publisher: IEEE ICONAT
- Certifications: AWS Certified Solutions Architect - Associate; Practical Ethical Hacking - TCM Security
- Achievements: IEEE CTF Bombay Section - 1st place; Code_Love_Hack - Google; HackMIT 2021/2022

TECHNICAL SKILLS

Languages	Golang, Python, C/C++, JavaScript, Bash, PowerShell
Frameworks	OSINT, Wireshark, Snort, Metasploit, Nmap, Splunk, MITRE, Git, PostgreSQL, MongoDB
Cloud/OS	AWS, Azure, GCP, Terraform, Kali, Ubuntu, Arch, Windows, VirtualBox, VMware

WORK EXPERIENCE

Zoetis, Inc (*Fortune 500*), Security Engineer Intern | Boston, MA   May 2023 - Present
- Leveraged Python, Ansible scripts and automation frameworks, reducing manual security tasks by 30%
- Achieved 25% faster incident response by correlating 1 million daily security events with Splunk (ES and Phantom), Demisto (PAN), and CrowdStrike Falcon; VAPT using tools such as Nessus, Burp Suite, Nmap, and Metasploit
- Implemented Azure and AWS cloud security measures, guarding assets through network security, IDAM & encryption

Oyela, Software Development Engineer Intern | Mumbai, India   February 2022 - April 2022
- Streamlined the blocking and reporting feature for users and posts; boosted user interaction and positive feedback by 30% after feature adoption; Engineered Golang REST APIs for MongoDB integration
- Built the prototype for a search algorithm with the ELK (Elasticsearch, Logstash, and Kibana) stack for 20% efficient query of username, product name and category name as opposed to legacy regex

Codecademy, Community Chapter Lead | New York City, NY   May 2021 - May 2022
- An ethical hacker leading and empowering a thriving community of college programmers (200+) in Mumbai, India
- Goa: Solutions to popular coding challenges; SysDesign: Software Systems Design module; GoPilot: Go with tests

Leonis Consultancy LLP, Information Security Intern | Mumbai, India   May 2021 - August 2021
- Orchestrated a VAPT to find loopholes (around 35% over legacy) and implemented advanced security strategies
- Revamped coding practices, generating reports to counter OWASP Top 10 and reinforced security defenses

PROJECTS

Hac'KP 2021, Grapnel   March 2021 - August 2021
- Upgraded a Darknet Crawler for the Kerala Police Cyberdome, themed 'Demystifying the Dark Web'; 20% more effective crawling as compared to previous iteration of the crawler
- Represented nodes graphically; Intelligent Darknet Monitor displaying the status of onion sites (Up/Down), boosting SDLC up by 3 weeks; Used Python, GraphQL, Dgraph, AWS S3, and pytest

IEEE Xplore – Capstone Research, Torsion   April 2021 - March 2022
- Engineered a Python-based OSINT tool (dossier) for metadata collection and username-based entity profiling and parsing, enhancing data intelligence capabilities
- Integrated darknet support for onion and i2p sites, optimizing querying speed by 30% through efficient async requests