

# Hritesh Sharad Sonawane

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Available Dates for Internship: May 2023 - December 2023

## EDUCATION

**Northeastern University**, Boston, MA

Expected May 2024

**Khoury College of Computer Sciences**

Candidate for a Master of Science in Cybersecurity

GPA: 3.5/4.0

Related courses: Foundations of Information Assurance, Network Security Practices

- Fall 2022 & Spring 2023: Lead Graduate Teaching Assistant for Foundations of Cybersecurity
- Spring 2023: Recipient of the Khoury Research Apprenticeship under Dr. Cristina Nita-Rotaru  
Topic: Attacks against delay-based (TCP) congestion control

**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, Software Engineering, 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

## TECHNICAL SKILLS

**Languages** Golang, Python, C/C++, JavaScript, Bash

**Frameworks** Linux, OSINT, Wireshark, Snort, Metasploit, Nmap, MITRE, Git, React, PostgreSQL, MongoDB

**Cloud/OS** AWS, Google Cloud, Firebase, Terraform, Kali, Ubuntu, Windows, VirtualBox, VMware

## WORK EXPERIENCE

**Oyela**, Software Development Engineer Intern | Mumbai, India

February 2022 - April 2022

- Streamlined the blocking and reporting feature for users and user content-posts; boosted user interaction and positive feedback by 30% after feature adoption
- Developed REST APIs in Golang to communicate (send & retrieve data) with the NoSQL database (MongoDB)
- 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 Mumbai Chapter**, Community Chapter Lead

May 2021 - May 2022

- Goa: Golang solutions to popular coding challenges; SysDesign: Software Systems Design module
- GoPilot: Go with tests; cc-golang: Introduction to Golang Workshop

**Leonis Consultancy LLP**, Information Security Intern | Mumbai, India

May 2021 - August 2021

- Coordinated a VAPT to find loopholes (around 65% over legacy) and implemented new security strategies
- Generated reports to defend against OWASP Top 10 vulnerabilities & migrated to secure coding practices

**Virtually Testing Foundation**, Intern (Remote) | Los Angeles, CA

March 2021 - June 2021

- Redesigned workflow on Docker, Kubernetes; Performed hands-on VMware virtualization on VMware HOL

## PROJECTS

**Hac'KP 2021**, Grapnel

March 2021 - August 2021

- Upgraded a Darknet Crawler for the Kerala Police Cyberdome, themed 'Demystifying the Dark Web'; 40% more effective crawling as compared to previous iteration
- Represented nodes graphically; Intelligent Darknet Monitor displaying the status of onion sites (Up/Down), boosting SDLC up by 3 weeks
- Identified vulnerabilities and other Indicators of compromise (IOC) present in the darknet site; Used Python, GraphQL, Dgraph, AWS S3, and pytest

**IEEE Xplore - Capstone**, Torsion

April 2021 - March 2022

- Engineered an OSINT tool for collecting metadata and maintained a dossier on an entity by username search
- Mapped darknet support - onion & i2p sites scanning; uses async requests for 30% faster querying
- Implemented the main module in Python by parsing 1000s of sites and profiling accordingly