Hritik Vijay

Security Engineer and SDE

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Summary

Passionate about technology and science with a strong focus on exploring problems at their core and identifying root-cause solutions. Skilled in designing and developing scalable software systems to automate complex, repetitive tasks efficiently. Adept at combining analytical thinking with practical implementation to drive impactful results.

Experience

Dreamplug Technologies Pvt Ltd | CRED   June 2022 - PRESENT
Sr. Product Security Engineer   Bangalore
🔗 https://cred.club

- CRED is an Indian Fintech company and processes millions of transactions per month.
- **Established** and refined the **DevSecOps Charter at CRED** involving finding supply chain vulnerabilities, setting up custom SAST detections and alerting systems at a scale of 1.8k repositories.
- Led and **built the primary ASPM** used by the organization to track its security posture.
- Performed **source code reviews** for multiple backend services written in **Python, Java and Golang**.
- Conducted multiple learning and **compounding sessions** for the team in enterprise **java security, supply chain security and AI security**.

AboutCode / VulnerableCode   October 2021 - PRESENT
Package maintainer
🔗 https://aboutcode.org/vulnerablecode

- Maintainer and developer for an open source solution to vulnerability scanning and remediation for package dependencies.
- The project aims to be a one stop **solution for SCA** detections in a given set of packages.
- The organisation is now responsible for multiple sub projects that are now coming out to be industry standards for supply chain security like **PackageURL, Univers**.
- See more at: https://github.com/aboutcode-org/vulnerablecode

Wavicle Technologies or LimeChat   October 2021 - May 2022
Software Development Engineer   Bangalore
🔗 https://limechat.ai

- Responsible for managing and developing chatbots and automations for real-time conversations on e-commerce websites hosted on AWS **EKS Kubernetes** cluster.
- The tech stack primarily included **Python, Postgres, Bash** and detailed **RCAs** to ensure product uptime.

Coding Liquids   June 2019 - November 2019
Cyber Security Trainer

- Introduced a cohort of 100+ students to core cybersecurity concepts through structured, beginner-friendly sessions.
- Delivered hands-on demonstrations of real-world web application attacks, including **Brute Force, CSRF, IDOR, CORS misconfigurations**, and **Content Security Policy (CSP) bypass**.
- Guided students through the usage of tools like **Metasploit** to simulate malware-based attacks in controlled environments.

Education

Bachelor's in Technology   2018 - 2022
Computer Science

Google Summer of Code   June 2021 - August 2021
Python Developer | GSoC
🔗 https://summerofcode.withgoogle.com/archive/2021/projects/6286057699540992

- Refactored the **core** part of the **project** involving performance improvements and development in Python / Django and maintained the CI pipelines in GitHub actions, Travis including building and improving docker containers.
- Added multiple data sources for VulnerableCode to ingest data from security advisories around the globe.
- **Authored** and deployed **project documentation** on Read the Docs to enable community access and collaboration

Volunteering
Opensource Contributor

Open source contributions to various projects including but not limited to: The Linux Kernel, scancode.io, rclone, kong – golang, changedetection.io

Projects
USB Rubber Ducky
🔗 https://www.youtube.com/watch?v=KoYcM197w94

- Created a USB Rubber Ducky similar to one on Hak5 for automation tasks.
- It is written in Arduino code for digispark.

HID, hak5, IoT

DNS Rebinding Toolkit
🔗 https://github.com/Hritik14/dns-rebind

- Created a DNS Rebinding attack toolkit which is capable of infiltrating into a user's internal network when browsing the attacker's website bypassing NAT restrictions.
- Delivered a talk on this in BSides Noida

KernInject

- A bootable usb that can install a kernel module to an unencrypted kernel on boot and gain a reverse shell.
- Could be used to bypass partial disk encryption

Poppy Vulnerable websites

- A series of websites vulnerable to Bruteforce, CSRF, LFI, SQLi, XSS, Data Exposure and RCE, accompanied with a few simple custom written tools for the attacks intended for practice and learning.
- Alternative to damn vulnerable web application.

Achievements
CVE-2020-6862
ZTE
🔗 https://www.exploit-db.com/exploits/48801

- Reported information disclosure vulnerability in ZTE routers with a VulDDB Base Score: 7.3.

Hall of fame
Xen Project

- Documented an exploit.

Skills
Web Security, Code Review

Python/Django, Golang, TypeScript, Lua, Vimscript, AWK, SQL, Dart, PHP CodeIgniter/Laravel, SQL, Git, Java

Networking - Wireshark, BurpSuite Community Edition

Automation - Python, bash, DNS - BIND, dnsmasq, lua

LFI, SQLI, XSS, Data Exposure and RCE

Linux System Administration, Kernel Modules, eBPF

AVR Programming - C, Arduino, ESP, Serial devices, ATTiny85, ESP8266

Gitlab, Penetration Testing, Static Analysis, Threat Modeling, Testing Tools, Scripting Testing, Tcp/Ip, Owasp, Http, Application Security