MEHTAB ZAFAR

Information Security Engineer

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PROFESSIONAL EXPERIENCE

Red Queen Tech — Security Product Engineer

July 2021 – ongoing Remote

- Developed from scratch a security training product (using Django/PostgreSQL) and created a CI/CD pipeline for automated deployments.
- Managed cloud infrastructure (AWS) to support internal applications.
- Performed ad-hoc penetration tests for various clients.

Hackerone / Bugcrowd / Intigriti — BugBounty

Aug 2020 – ongoing Independent/Remote

- Listed on Hall of Fame for various companies, such as **Google**, GitHub, PayPal, US Department of Defense, DELL, Atlassian, Zynga.
- I am proficient at web and mobile application security testing.
- Performed static code analysis to identify various vulnerabilities in APK files.
- Performed zero-day research on open source software.
- **HackerOne:** https://hackerone.com/mzfr

The Honeynet Project — Code — Developer

May 2020 – August 2020 Google Summer of Code

- Improved the speed and functionality of a high interaction honeypot (Snare/Tanner).
- Added support for persistent storage using PostgreSQL and SQLAlchemy.
- Improved the API functionality based on the new database structure.

Vulnhub / TryHackMe — Content Creator

Aug 2019 – March 2020 Independent/Remote

- Created various CaptureTheFlag (CTF) challenges for TryHackme.com that teaches about Web related vulnerabilities like XXE, XSS, JWT.
- Created a three potential Vulnerable machines for VulnHub.com
- Invited to perform beta tested various vulnerable virtual machines like TempusFugit series, DC8 for vulnhub.com.

XBMC Foundation — Code — Developer

May 2018 – Aug 2018 Google Summer of Code

- Worked on an Open source project under a student program by Google. Developed a tool for performing static code analysis on all addons for Kodi.

PROJECTS

- **slicer** — Code
  - Wrote this tool to automate the bug hunting process on Android applications (APK).
  - It can find possible vulnerable activities, receivers and services.
- **liffy** — Code
  - Wrote this tool to automate the process of discovering and exploiting Local file inclusion (LFI) attack.
    - Once exploited, it can also generate & provide reverse shell.
- **takeover** — Code
  - Made a CLI tool to check subdomain takeover at a mass scale.
  - Given output of amass/subfinder this tool can check if any of the subdomain is vulnerable to subdomain takeover.

ACHIEVEMENTS

- Hall of Fame for companies such as Google, Github, PayPal
- Offensive Security Certified Professional (**OSCP**) by Offensive Security
- **Google Summer Of Code** - 2018, 2020
- Certified Penetration tester by eLearnSecurity (**eJPT**)

EDUCATION

Inderprastha Engineering College

Jul 2017 - Aug 2021

B.Tech - Computer Science

SKILLS

Programming

Python golang

Tools/Tech

Burp Suite Metasploit Zap Proxy Docker WireShark

Misc

SQL PostgreSQL Git Django

EXTRA CURRICULARS

- Participating in CaptureTheFlag competitions with Team OpenToAll.
- Pentest vulnerable virtual machines on platforms like TryHackMe, HackTheBox, Vulnhub.
- Writing technical blog posts on security & development related topics.
- Writing walkthroughs for boot2root machines of HackTheBox & Vulnhub.