# MEHTAB ZAFAR

Product Security Engineer

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## PROFESSIONAL EXPERIENCE

### Red Queen Dynamics — Product Security Engineer

July 2021 – Aug 2023 Washington, D.C

- Worked as a full-stack dev to develop from scratch a security training product (using Django/PostgreSQL) and created a CI/CD pipeline for automated deployments.
- Handled DevOps for the team i.e. created and 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.
- Performed static code analysis to identify various vulnerabilities in APK files.
- Performed zero-day research on open-source software.

### 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
- Both the API and honeypot were written in Python and used libraries like asyncio, Redis, jinja, etc

### Vulnhub / TryHackMe — Devops

Aug 2019 – March 2020 Independent/Remote

- Created various CaptureTheFlag (CTF) challenges for TryHackme.com that teach about Web-related vulnerabilities like XXE, XSS, JWT.
- Created potential Vulnerable machines for VulnHub.com
- All the virtual machines had custom applications made in Python & bash
- Invited to perform beta test 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, written in Python.

## 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 which can then be leveraged to get a reverse shell.

## 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

### National University of Singapore

Aug 2023 - December 2024

**Masters of Computing - Infcomm security**

### 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

AWS SQL PostgreSQL Redis Git Django

### CI/CD

Github Actions Bitbucket Pipeline Gitlab

## 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.