

PROFESSIONAL EXPERIENCE

Red Queen Dynamics

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.
- 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)

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

EDUCATION

Inderprastha Engineering College

Jul 2017 - Aug 2021

🎓 B.Tech - Computer Science

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.