

PROFESSIONAL EXPERIENCE

Red Queen Dynamics

Security Product Engineer

📅 July 2021 – Ongoing 📍 Remote

- Worked as a fullstack 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



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



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



- Wrote this tool to automate the bug hunting process on Android applications (APK).
- It can find possible vulnerable activities, receivers and services.

liffy



- 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

G 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

National University of Singapore



Aug 2023 - December 2024

Masters of Computing - Infcomm security

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.