

Swaroop Yermalkar

HEAD OF CYBER SECURITY (RED TEAM) · HACKERU INDIA

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Summary

Hi, this is Swaroop Yermalkar. I have over 8+ years of industry experience in information security and currently working as a Head of Cyber Security (Red Team) for HackerU India. In the past, I have worked with Persistent System, Philips Healthcare, Lithium, and Traveloka in various roles as Security Engineer, Lead Product Security. I have a great interest in presenting my security research and I have spoken in 10+ international conferences including AppSec USA, AppSec Israel, Defcon 25 (AppSec Village), BruCON, SEC-T, c0c0n, GroundZero, and many more!

Skills

Proficient in security assessment of	Web App, iOS Apps, Android Apps, Network, Web Services
Adept with AWS security tools and utilities like	Scout2, Prowler, Security Monkey, AWS Config, CloudTrail, Guard Duty, Cloudwatch
Adept with mobile security tools and utilities like	Needle Framework, Objection, cycript, class-dump-z, drozer, dex2jar, Santoku
Potential to conduct training in	Secure Web App Development, Secure Mobile App Development
Development and Deployment	Git, Jenkins, JIRA, Bitrise, Circle CI
High potential to utilize scripting languages	Python, Bash

Work Experience

HackerU India (<https://hackeru.com/>)

HEAD OF CYBER SECURITY [RED TEAM]

- Managing the entire Red Teaming Program for HackerU India division.
- Training advanced cyber security topics.
- Researching new attack vectors in Red Teaming.
- Mentoring 100s of students for career in information security.

Bengaluru / Israel

Jan, 2019 - Present

Traveloka (<https://www.traveloka.com/en/>)

LEAD SECURITY ENGINEER [PRODUCT SECURITY TEAM]

- Performing vulnerability assessments and penetration testing on regular basis on various products including web, mobile and aws
- Automate security checks and integrate into the current CI/CD pipelines.
- Working with developers to address security issues.
- Educating developers on secure coding practices with workshops, talks, and lessons.
- Working on security automation Web, Mobile (iOS, Android), AWS Security assessments
- Leading and mentoring team of 7 security engineers

Bengaluru / Jakarta

Nov, 2018 - Present

Lithium Technologies (<https://www.lithium.com/>)

SENIOR SECURITY ENGINEER

- Working on end to end Application Security, AWS Security. Periodic security audits, Actions on findings
- Handled Lithium (B2B) bug bounty program.
- Conducted training for developers on Secure Web App Development, Secure Mobile App Development
- Performed security assessment of each sprint, mobile sdk (iOS and Android)
- Conduct threat modeling, vendor risk analysis
- Communicating to clients, (senior) management, and fellow engineers regarding security issues
- Support sales in the scoping of security requirements for clients

Bengaluru / SF

Oct, 2017 - Nov, 2018

Philips Healthcare (<https://www.philips.com/>)

SENIOR SOFTWARE ENGINEER [SECURITY]

- Performed security assessment of healthcare devices
- Visited Philips development center across the world and conducted secure development training for developers
- Worked on various IoT Pentest
- Presented Philips at various security conferences

Bengaluru, INDIA

Feb, 2016 - Oct, 2017

Persistent Systems Ltd, (<https://www.persistent.com/>)

SOFTWARE ENGINEER [SECURITY]

- Conducted VA PT assessments for telecom, financial, healthcare and Social clients
- Performed Network, Web, Android and iOS Pentest for clients
- Worked on Source Code review for Java based enterprise application

Pune, INDIA

June, 2013 - Dec, 2015

Education

MIT College of Engineering

BACHELOR OF ENGINEERING (BE)

Pune, Maharashtra, INDIA

2010 - 2013

Projects (Open Source)

OWASP iGoat (<http://www.igoatapp.com/>)

Tech Stack: Objective C, OWASP Mobile Top 10

Role: iGoat is a learning tool for iOS developers (iPhone, iPad, etc.) and mobile app pentesters.

iGoat was inspired by the WebGoat project, and has a similar conceptual flow to it.

As such, iGoat is a safe environment where iOS developers can learn about the major security pitfalls they face as well as how to avoid them.

It is made up of a series of lessons that each teach a single (but vital) security lesson.

Achievements

- 2020 **OSCE - Offensive Security Certified Expert,**
- 2019 **CREST Registered Penetration Tester,**
- 2018 **AWS Certified Cloud Practitioner ,**
- 2017 **OSWP - Offensive Security Wireless Professional,**
- 2016 **OSCP - Offensive Security Certified Professional,**