Saurabh **Kumar**

INFORMATION SECURITY AND OPEN SOURCE DEVELOPMENT ENTHUSIAST

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Summery

Final year student at Indian Institute of Technology Roorkee. Software and Security enthusiast. An open-source contributor, a Google Summer of Code 2019 student, and CTF Player. Experienced in Python, C++ and JavaScript. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Experience

Security Researcher Intern
PAYATU TECHNOLOGIES

Remote

May 2020 - Oct 2020

- Worked on fuzzing software Adobe/Foxit for Vulnerability.
- Written Dharma grammar for Acrobat PDF JavaScript API and integrated it on Cloudfuzz for fuzzing.
- Analyzed some crashes.
- Tech Stack: Python, Dharma, Git, Acrobat JavaScript API's

Google Summer of Code 2019 | Software Engineer Intern
OWASP FOUNDATION (LINK)

Remote

6th May 2019 - 19th August 2019

- Contributed to DefectDojo an open-source vulnerability management tool. Mentored by Aaron Weaver.
- Implemented custom tools for Defectdojo project like Cobalt, Openscap, Mozilla observatory, etc.
- Written Unit-tests for scans like Nmap, Nikto, Checkmarx, etc.
- found some security bugs in DefectDojo and fixed it.
- Tech Stack: Git, Python, Docker, Django

Cyber-Security Intern
DEFENSE INTELLIGENCE AGENCY (ADGSI/DIA)

Delhi, India

13 May 2019 - 26 June 2019

- Worked on Dynamic and static analysis of Windows Malware.
- Worked on Process Injection techniques.
- Tech stack: C++, Windows API, Assembly, Python, Golang.
- Utility: Visual Studio, IDA pro, Windbg, Wireshark

Positions of Responsibility / Extracurricular Activity

SDS InfoSec
COORDINATOR | MEMBER

IIT Roorkee

February 2018 - Present

- On-campus group of information security enthusiasts
- Organized meetings/talks relating to CTFs and Information Security
- Participate in various CTFs as dr3dd with team InfoSecIITR.
- Designed challenges for Backdoor ctf's.

DefectDojo Contributor & Moderator
OWASP FOUNDATION (LINK)

Remote

November 2019 - May 2020

- Maintaining the Project.
- Contributing to project and reviewing code.

Bug Bounty
PARTICIPANT

Remote

January 2020 - Present

- Found some bugs in private program and reported it on Hackerone. (Link)

Skills

Computer Languages	Python, C++, JavaScript, Bash, Assembly
Utilities	Git, IDA, BurpSuite, Nmap, Wireshark, GDB, Radare2, Docker, Kubernetes, Chrome Developer Tools
Languages Known	English(SRW), Hindi(SRW)
Knowledge Of	OWASP Top 10
Extra Courses On Coursera	AWS Fundamentals: Going Cloud-Native, Google Cloud Platform Fundamentals: Core Infrastructure, Software Security

Education

Indian Institute of Technology Roorkee   *Roorkee, India*

B.Tech in Metallurgical and Materials Engineering   *2017-2021*

- Senior Year
- Expected June 2021

Program Committees

2019   **Problem Writer**, 2019 n00bCTF Hacking Competition of IIT Roorkee   *IIT Roorkee*

2019   **Problem Writer**, 2019 backdoorCTF Hacking Competition of IIT Roorkee   *IIT Roorkee*

Awards / Scholarships / Academic Achievements

2019   **2nd Place in finals (India)**, CSAW CTF 2019   *IIT Kanpur*

2019   **Qualified for finals**, CyBRICS CTF 2019   *Vadodara*

2019   **Qualified for finals**, Brainwaves CyberSecurity 2019 CTF   *Bengaluru*

2018   **1st place**, Codefest-CTF 2018 orgainsed by IIT BHU   *India*

2018   **Fellowship**, Yes Foundation India Fellowship   *India*

2013   **Sports**, Selected for Under-17 National Hockey Jnv Lucknow region team.   *India*