



Educational Qualifications

Year	Degree/Examination	Institution	University/Board
2017	B.Tech III year	I.I.T. Roorkee	I.I.T. Roorkee
2015	12th (Sr. Sec. school)	H.M. D.A.V. Public School	C.B.S.E.
2013	10th (Sec. school)	St. Joseph's Convent School	I.C.S.E.

Software Projects

Qubes OS (<https://www.qubes-os.org/>) May 2017 - Aug 2017
Summer of Code 2017 Google

- An operating system aimed at providing pragmatic endpoint security through compartmentalization.
- Improved the security of the qubes components through continuous automated static and dynamic analysis.

Backdoor (<https://backdoor.sdslabs.co>) May 2016 - Present
Software Development Section I.I.T. Roorkee

- Information security platform for practice and organizing regular internationally-well known CTF contests.

Beast (automated, containerized challenge deployment) Dec 2016 - Jan 2017
Software Development Section I.I.T. Roorkee

- Docker based tool to automate deployment of challenge containers spawned individually for each user.

OWASP-ZSC (https://www.owasp.org/index.php/OWASP_ZSC_Tool_Project) April 2016
Summer of Code 2016 candidate Google

- Shellcode generation and code obfuscation tool successfully demoed at Defcon Labs and BlackHat EU.

Skills

Programming Languages Python, C, PHP, Bash, C++, Java

Software packages, tools Docker, Git, IDA, NMAP, Radare2, Wireshark, GDB, oss-fuzz, GNU Make, libFuzzer

Achievements

- Won first place in CSAW (Cyber Security Awareness Week) CTF India finals CSAW, 2017
- Shortlisted among top 7 teams for a NodeJS based in-sync music player InOut 3.0, 2016
- All India Rank 498 among 150,000 candidates in JEE Advanced JEE, 2015

Extracurriculars

Executive Member, SDS Labs (<https://sdslabs.co>) Jan 2016 - Aug 2017

- Official programming, web and software development group of the institute.

Member, InfoSec IITR Oct 2015 - Present

- Participate in, and organize CTFs, regular group meetups and conduct open lectures.

Editor, Geek Gazette (<https://geekgazette.org>) Aug 2015 - Dec 2016

- Wrote articles, short stories and had meaningful thought provoking discussions with fellow members.

Relevant Courses

System Software
Operating Systems
Computer Architecture
Network Programming

Computer Networks
Software Engineering
Database Management Systems
Object Oriented Analysis & Design

Data Structures
Discrete Structures
Theory of Computation
Design and Analysis of Algorithms