

RISHI RANJAN

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EDUCATION

Indian Institute of Technology, Roorkee

📅 July 2018 – Present 📍 Uttarakhand, India

- B.Tech in Computer Science and Engineering
- CGPA : 8.912/10

SOCIETIES & MEMBERSHIPS

Team Member | InfoSecIITR, IIT Roorkee

📅 August 2018 – Present

- InfoSecIITR is an open group of students which promotes the culture and technical know-hows of information security in the campus.
- Learned about various fields of Information Security like Web Exploitation, Binary Exploitation, Cryptography, Forensics, Networking and Reverse Engineering.
- Participated in various worldwide CTFs like CSAW, CyBrics, HitCon etc.

Team Member | Information Management Group, IIT Roorkee

📅 January 2019 – Present

- IMG is a group of students that constantly strive to lead in the innovation, development and maintenance of advanced information technologies including computer systems, software and database systems.
- Learned to work along with a product cycle with a team of approximately 50 members.
- Worked on the architecture and backend of Omniport.

ACHIEVEMENTS

- Ranked in top 0.02 percentile in JEE-Advanced 2018 with a rank of 280.
- Ranked in top 0.4 percentile in JEE-Mains 2018.
- James Thomson Scholarship awardee.

SKILLS

- **Binary Exploitation** : Knowledge of Stack Based vulnerabilities, Heap Based Vulnerabilities, basic knowledge of kernel exploitation and various other attacks.
- **Tools Used** : GDB, radare2, pwntools, Ghidra
- **Computer languages** : JavaScript, C/C++, Python, Bash, Java
- **Web Exploitation** : Knowledge of php based exploitation, XSS, flask based exploitation.
- **Tools Used** : BurpSuite, DirBuster, sqlmap, xss scanner.
- **Networking** : Knowledge of various networking protocols and concepts from a theoretical purposes.

TECHNICAL PROJECTS AND ACHIEVEMENTS

CyBrics CTF 2019 | InfoSecIITR

📅 July 2019 and September 2019

- CyBrics CTF was a world-level jeopardy style CTF organized by the CyBrics team in July. The initial qualifying round was held in July where 5 teams from each participating country(BRICS) would qualify for an attack defence style finals.
- Part of the team inv4ision which qualified for the finals in Vadodara, Gujarat
- Placed in top 20 position in the attack-defence final.

CTF | InfoSecIITR

📅 August 2018 – Present

- Participated in multiple CTFs as part of the team InfoSecIITR.
- Won many CTFs like CSAW India, CodeFest CTF.

Omniport infrastructure, core and services | IMG, IIT-R

📅 August 2019 – present

- Omniport is a platform for institutes to deploy their portal (like Channel i for IIT Roorkee), by and for the students.
- Omniport is completely generic, but offers varying levels of customisability, to suit the needs of any institute worldwide.
- Contributed to the the Django backend and React frontend including core and services.
- Tech stack includes JS, ReactJS, Redux, Python, Django, Docker.
- Visit <https://omniport.readthedocs.io>.

Presence | IMG, IIT-R

📅 March 2019 – present

- Presence is a utility tool used inside the IMG lab to track the lab time of people.
- It also tells us about the people present in the lab at any time using a simple slackbot query.
- Contributed to the client side script which updates the presence backend about the members present. Also contributed to the deployment of the client side on a raspberry pi.
- Tech stack includes python, Django, Docker and cron.
- Visit https://github.com/rish9101/presence_docker/tree/rishi_presence