RAVINDER

B.Tech. Computer Science and Engineering
UG(IV Year I Semester)
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Registration No: B.Tech./CSE/15114056/2019

Indian Institute of
Technology
Roorkee

Area of Interest

Web Security, Network Security, Software Development

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2018	B.Tech. 3rd Year	Indian Institute of Technology, Roorkee	*9.053*
2015	Twelfth	Nav Jyoti Sr. Sec School (CBSE)	*90.0 %*
2013	Tenth	Nav Jyoti Sr. Sec School (CBSE)	*10.0*

Internships

Self-tuning Scheduling System | Adobe Research   May 7, 2018 - Jul 26, 2018
- The project focused on making a self-tuning scheduler for optimally scheduling tasks based on their behaviour in the vicinity of other running tasks to achieve better performance and utilization.
- Analyzed and extracted features from application production logs.
- Clustered similar behaving applications and developed a Reinforcement learning model to predict the best machine where a waiting task needs to scheduled and self-tune itself based on the feedback it receives after analyzing the performance of scheduled tasks.

Snare-Tanner | Google Summer of Code   May 30, 2017 - Aug 21, 2017
- Snare, a web application honeypot that clones the website and used as a server to publish it. Tanner analyzes the requests made to snare and responds to them.
- Implemented MySQLI, Command Execution emulator(using docker) and a new base emulator architecture to facilitate the addition of new emulators and added new API methods.
- Implemented a WEB UI server to show stats and information captured by the honeypot using Aiohttp and Jinja.

Projects

ARP Spoofing Detection | IIT Roorkee   Jan 2018 - Apr 2018
- Security tool to detect ARP spoofing in LAN.
- Injects ARP request and TCP SYN packet in detecting spoofing faster and more reliable than passive methods.

Mini C++ Compiler | IIT Roorkee   Mar 2018 - Apr 2018
- Designed lexical and syntax analyzer for a C++ compiler.
- Able to detect errors like invalid variable name, basic arithmetic and syntax errors in loops, If-Then-Else.

Relational Database Design of Tumblr | IIT Roorkee   Sept 2017 - Nov 2017
- Designed a fully functional relational database for Tumblr, a social networking website.
- Inserted dummy data and wrote SQL queries which are frequently required for website functionality.

Sound Profile Manager | IIT Roorkee   2017
- An android application that manages sound profile according to a schedule for the complete week.
- It can be disabled and re-enabled for a particular day in the case of a holiday.
- The database is maintained using SQLite.

Awards / Scholarships / Academic Achievements

- 3rd Place, Aaproksha CTF during Annual Tech Fest of IIIT Allahabad 2017
- All India Rank 557, Joint Entrance Examination Advanced 2015
- All India Rank 4967, Joint Entrance Examination Mains 2015

Skills

Computer languages	C, C++, SQL, Python, NodeJS
Software Packages	Git, Tensorflow, Android Studio
Languages Known	Hindi (SRW) , English (SRW)

Positions of Responsibility & Extra Curriculars

Member | SDS InfosecIITR   Jul 2016 - Jan 2018
- A group of security enthusiasts aims at increasing the security culture in the campus.
- Organized and conducted open lectures for students on a variety of security related topics
- Designed challenges for CTFs hosted on Backdoor Website

Volunteer | NSS   Jul 2015 - Apr 2016
- Awarded Certificate of Appreciation for outstanding contribution in Model Village cell activities.
- The cell provides free education to economically backward children and organizes cleanliness campaigns under Swachh Bharat Abhiyan, Tree Plantation campaigns etc.