

Ravinder Nehra

✉ hnehra1@gmail.com | ☎ (+91) 7404187075 | 🏠 rnehra01.github.io | 🌐 rnehra01

Education

Indian Institute of Technology Roorkee

B. TECH IN COMPUTER SCIENCE & ENGINEERING

CGPA: 9.27 / 10.0

Roorkee, India

2015 - 2019 (Expected)

Honors & Awards

- Sept 2017 **8th place**, CSAW Online Qualification Round (InfoSecIITR qualified for onsite round to be held at IIT Kanpur)
- Apr 2017 **3rd place**, Aaproksha CTF during Annual Tech Fest of IIT Allahabad
- May 2015 **All India Rank 557**, Joint Entrance Exam Advanced; 150,000 candidates

Experience

Google Summer of Code 2017, The Honeynet Project

SNARE TANNER

Jun 2017 - Aug 2017

- Implemented MySQLi, Command Execution(using docker), CRLF emulators
- Implemented new base emulator architecture to facilitate the addition of new emulators
- Implemented new API methods to get stats and information captured by the honeypot
- Implemented Tanner WEB UI server using Aiohttp and Jinja
- Created test suite for all new code implemented during GSoC

Projects

ARP Validator

COMPUTER NETWORKS

NodeJS

Sept 2017- Oct 2017

- 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

Sound Profile Manager

COURSE PROJECT, PROF. SANDEEP K. GARG

Java, SQLite, Android Studio

Mar 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

Producer-Consumer Problem and Banking Algorithm Implementation

COURSE PROJECT, PROF. P. SATEESH KUMAR

C

Apr 2017

- Solved Producer-Consumer problem using counting semaphores and mutex locks
- Implemented multi-threaded Banker Algorithm

Extracurricular Activity

SDS InfoSecIITR

EXECUTIVE MEMBER

IIT Roorkee

Jul 2016 - Present

- Designed challenges for CTFs hosted on <https://backdoor.sdslab.com>

National Service Scheme

VOLUNTEER

IIT Roorkee

Jul 2015 - Apr 2016

- Awarded Certificate of Appreciation for outstanding contribution in Model Village cell activities

Skills

Programming Languages C++, Python, NodeJS, Java

Utilities Git, Sublime Text, Vim, L^AT_EX

Coursework

A Data structures and Algorithms
A System Softwares
A Software Engineering
***** Computer Networks
***** Network Programming

A Design and Analysis of Algorithms
A Computer Architecture
Operating Systems
***** Database Management System
A : Grade *** : In progress**