TANISHQ RUPAAL

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Passionate about Cyber Security. Detail-oriented, with a curious mind and ability to effectively learn quickly. Aiming to be a Security Specialist.

Core Skills

- Proficient in **Python, C++** and **bash**. Others - C, java, and web (html/css/js/php)
- Experience in **Kali Linux** and command over Linux systems.
- Fundamental knowledge of **computer networks** and **penetration-testing**.
- **Capture The Flag competitions** and Competitive coding.

Extra Curricular and hobbies

- **President, Founder** and **Workshop Instructor** for **ACM The Hacker's Exclusive**, an **SIG** at BITS Pilani, Dubai.
- Student Executive at **Careers Division**, BITS Pilani, Dubai
- **Drummer** (Phantom Asylum) - Rockschool Drums Grade 4 (92%)
- **Photography** and **Digital Concept Art**

Education

- **MS in Cybersecurity** | Georgia Institute of Technology
  Aug 2019 - May 2021 (Expected)
  CGPA (up to Spring 2020) - **3.86** / 4.0
  Graduate Teaching Assisstant for CS 6035/4235 | Jan 2020 - Present
- **BE (Hons.) in Computer Science** | BITS Pilani, Dubai Campus
  Aug 2015 - Jun 2019
  CGPA - **9.51** / 10.0

Experience

- **Security Engineer Intern** | Google | May 2020 - Present
  - Integrated a coverage guided fuzzer (Manul) into Google Fuzzbench project.
  - Improved Fuzzbench's benchmark build system for OSS-Fuzz projects.
  - Written PoC fuzz targets for 2 open source projects.
- **Tech Intern** | Paramount Computer Systems | Aug 2018 - Jan 2019
  - Implemented a Secure File Upload Web Server
    Built for clients to upload log files securely to a public facing server.
  - Developed Automated Vulnerability Assessment (VA) Bot for internal networks.
    Programmed using Nessus, nmap and mass-scan on python and bash.
- **Intern** | Paramount Computer Systems | Jun 2017 - Aug 2017
  - Performed VA of internal network in the office space.
  - Delivered sessions to healthcare practitioners on Ransomware Awareness.

Projects

- **SubDextract - Sub Domain Enumeration** | Mar 2020
  - Implemented using Python, useful even in local-only network environments.
  - Incorporated fast and reliable queries such as CT logs, SAN, DNS, etc.
- **Analysis of Top 1 million domains** | Mar 2020
  - Analyzed Majestic, Alexa and Tranco lists applied to security metrics.
  - Crawled the domain lists for 30 days and visualized popularity changes.
- **Cookie-less Secure Login** | Sep 2018
  - Constructed login page without cookies using php and js constructs.
  - Enforced security against SQLi, token/cookie based attacks and replay attacks.
- **EncCat - Encrypted TCP socket Communication** | May 2018
  - Created a secure communications and large file sharing tool on python.
  - Emulated netcat with addition of a self-devised encryption scheme.
- **Secure Voting on Blockchain (Ethereum Platform)** | Apr 2018
  - Developed a secure voting system on a web interface using node.js in a team of 2.

Accomplishments

- **Dubai Police CTF Competition - Top 15** | Feb 2019
- **Hack in The Box (HiTB) Conference 2018, Dubai** | Oct 2018
  Secured **Rank 1** (UAE) in CTF (Professional) competition - under team "PCS_RT".
- **IEEE Xtreme 11.0 : Programming Competition** | Oct 2017
  Secured **Rank 1** (UAE) and **Rank 415** globally under team - **Optimise Prime.**
- **Research Proposal** | Dubai Electronic Security Center (DESC)
  Network topology with self-healing threat identification & correction.
- Part of team **Medikate** in **NYU Abu Dhabi Hackathon 2019**