

TANISHQ RUPAAL

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Passionate about Cyber Security. Detail-oriented, with a curious mind and ability to effectively learn fast. I aim to be successful as 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 of ACM The Hacker's Exclusive**, an SIG at BITS Pilani, Dubai (Dec 2017 - May 2019)
- Student Executive at **Careers Division**, BITS Pilani, Dubai
- **Drummer** (Phantom Asylum) - Rockschoool 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) - 3.85 / 4.0
GTA for CS 6035/4235 (Intro to InfoSec) | 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 LLC | May 2020 - Present
 - Worked on **OSS-Fuzz** and **Fuzzbench** projects as a part of the Fuzzing team.
 - Successfully integrated **Manul Fuzzer** into Google Fuzzbench project.
 - Written initial **fuzz targets** for various open-source projects.
- **Tech Intern** | Paramount Computer Systems | Aug 2018 - Jan 2019
 - Developed a **Secure File Upload Web Server**
Used by clients to upload log reports to the firm's public facing server.
 - Developed **Automated Vulnerability Assessment (VA) Bot**
VA in internal networks using **Nessus**, **Mass-scan**, **nmap** using python, bash scripts.
- **Intern** | Paramount Computer Systems | Jun 2017 - Aug 2017
 - Performed VA in the internal network of the Office space.
 - Delivered sessions to healthcare practitioners on Ransomware Awareness.

Projects



- **SubDextract - Sub Domain Enumeration** | March 2020
 - Fast, reliable tool in Python, useful even in local-only network environments.
 - Uses many queries such as CT logs, SAN, DNS, etc. to gather subdomains.
- **Analysis of Top 1 million domains** | March 2020
Research project to analyze Majestic, Alexa and Tranco top 1 million lists applied to set of security metrics, as well as their popularity.
- **Cookie-less Secure Login** | Sept 2018
 - Constructed login page **without cookies** using php and js constructs.
 - Secure against **SQLi**, token/cookie based attacks as well as replay attacks.
- **EncCat - Encrypted TCP socket Communication** | May 2018
 - Developed a **secure communications** and **large file sharing** tool on python.
 - Emulated **netcat**, developed 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 in 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**