

# 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**