

TANISHQ RUPAAL

tanishq.page

trupaal@gmail.com

Atlanta, US

+1 404 319 1433



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** and **bash**. Others - C, 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) - 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) - 3.86 / 4.0
Graduate Teaching Assistant 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 - Aug 2020
 - Improved Fuzzbench build system to use single source of truth for building benchmarks.
 - Eliminate differences between standard and OSS-Fuzz benchmark integration.
 - Integrated a coverage guided fuzzer (Manul) into Google Fuzzbench project.
 - Written PoC fuzz targets for 2 open source projects.
- **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**