

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.



Education

- **MS in Cybersecurity | Georgia Institute of Technology**

Aug 2019 - May 2021 (Expected)

CGPA (up to Spring 2020) - 3.86 / 4.0

GTA for CS 6035/4235 (Intro to Information Security)

- **BE (Hons.) Computer Science | BITS Pilani**

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 b/w 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.

- **Graduate Teaching Assistant | Georgia Institute of Technology**

Jan 2020 - Present

- Supervised course logistics and prepared examinations.
- Graded assignments and held QnA sessions for a class of 300 students.

- **Intern | Paramount Computer Systems FZ LLC**

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
Programmed to automate VA for internal networks using nessus, mass-scan, nmap on python and bash.

- **Intern | Paramount Computer Systems FZ LLC**

Jun 2017-Aug 2017

- Performed VA in the internal network of the office space.
- Delivered sessions on Ransomware awareness to healthcare practitioners.

Core Skills

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



Projects

- **Analysis of Top 1 Million Domains** | March 2020
 - Analyzed Majestic, Alexa and Tranco lists applied to security metrics.
 - Crawled the domain lists for 30 days and visualized popularity changes.
- **SubDextract - Sub domain enumeration** | March 2020
 - Implemented using Python, useful even in local-only network environments.
 - Incorporated fast and reliable queries such as CT logs, SAN, DNS, etc.
- **Cookie-Less secure Login** | Sept 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 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 "PCR_RT"
- IEEE Xtreme 11.0 : Programming competition | Oct 2017
Secured Rank 1 (UAE), Rank 415 globally, under team "Optimise Prime"
- Research Proposal | Dubai Electronic Security Center (DESC)
Network Topology with self healing threat identification and correction.
- Part of team Medikate in NYU Abu Dhabi Hackathon 2019



Extra-Curricular and Hobbies

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

