TANISHQ RUPAAL

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Areas of Interest

Passionate about Computer Security, with an aim to become a hacker/security researcher.

Github
www.github.com/Tanq16

Core Skills

- Programming - Proficient in **C++, Python** and **bash**.
- **C, java,** and basic web technologies (**html/css/js/php**)
- Experience in **Kali Linux** and command over **Windows** and **Linux** systems.
- Fundamental knowledge of **computer networks** and **pen-testing**.
- **CTF's** and **Competitive coding**.
- **Installation** of **hardware** and **software** components in computers.

Extra Curricular

President & Founder of ACM HeX
(**The Hacker's Exclusive**), an SIG at
BITS Pilani Dubai Campus
(12,2017 to 05,2019)

Student Executive at **Careers Division**, BITS Pilani Dubai

Drummer (Phantom Asylum)
Rockschool Drums Grade 4 (92%)

Education

- **Georgia Institute of Technology**
  MS Cybersecurity | Aug 2019 - May 2021 (Expected)
- **Birla Institute of Technology and Science Pilani, Dubai Campus**
  BE Hons. in **Computer Science Engineering** | Aug 2015 - Jun 2019
  CGPA - 9.51

Experience

- **Tech Intern** at **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.
    - Allows direct sharing of logs upto 2 GB compared to 25 MB with previous solution.
  - **Developed Automated Vulnerability Assessment Bot**
    Automated vulnerability assessment in internal networks using **Nessus, Mass-scan, nmap** and scripting with **python** and **bash**.
- **Intern** at **Paramount Computer Systems** | Jun 2017-Aug 2017
  - Configured **NAS** (network attached storage) device in Office space.
  - Performed **VA** in the internal network of the Office space.
  - Delivered sessions to healthcare practitioners on **Ransomware Awareness**.

Projects

- **Secure Voting on Blockchain** (Ethereum Platform) | Apr 2018
  - Developed a voting system on a **web interface** using **node.js** in a team size of 2.
  - Voting system secured against **SQL Injection, CSRF, XSS,** and **replay** attacks.
- **EncCat - Encrypted TCP socket Communication** | May 2018
  - Developed a communications and file sharing tool on **python**.
  - Emulated **netcat**, developed a self-devised encryption scheme.
  - Designed for large **file transfers** and **secure communications**.
- **Cookie-less Secure Login** (php, html, js) | Sept 2018
  - Constructed login page **without cookies** using **php** which is secure against **SQLi** and all other **token/cookie based** attacks.
  - **Replay attacks** prevented through use of **js** constructs.
- Part of team **MediKate** at NYUAD Hackathon 2019
  Assistance using QR codes for healthcare practitioners to manage patient procedures
- **Fundamentals of Penetration Testing Methodologies**
  - Platforms - Hack The Box, VulnHub, Seed Labs by Syracuse Universities
  - Notable Exercises - IRC exploit, MD5 attack, XSS Worm

Certificates and Accomplishments

- **Dubai Police CTF Competition - Top 15** | Feb 2019
- **HiTB Conference 2018, Dubai** Professional Capture The Flag competition - Ranked 5th under team name **"PCS_RT"** | Oct 2018
- **Research Proposal** | Dubai Electronic Security Center (DESC)
  Network topology with self-healing threat identification & correction mechanism
- **IEEE Xtreme 11.0 : Programming Competition** | Oct 2017
  Secured **Rank #1** in **UAE** and **Rank #415 globally** | Team - **Optimise Prime**
- **Linux Administration** (82%), **Create a subnet** (98%) - Cybrary