

Anuj Modi

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Education

Northeastern University - Khoury College of Computer Sciences

Boston, MA

Candidate for a Bachelor of Science in Computer Science – May 2020

September 2016 – Present

- **Concentration:** Cyber Operations, **Minor:** Mathematics
- **Honors:** GPA: 3.9/4.0, CyberCorps: Scholarship for Service Recipient, Dean's List since Fall 2016
- **Relevant Courses:** Computer Systems, Systems Security, Network Security, Wireless Network Security, Networks and Distributed Systems, Object-Oriented Design, Algorithms, Programming Languages, Compilers
- **Activities:** Collegiate Cyber Defense Team, Association for Computing Machinery, Northeastern Nakhraas (a competitive dance team specializing in Raas, an Indian style), Utsav South Asian Community

Computer Knowledge and Other Skills

Programming Languages: **Proficient** – Python, C, Java, Racket **Familiar** – ACL2, JavaScript, SQL, HTML, CSS

Operating Systems and Software: MacOS, Ubuntu/Debian, Windows, Bash, GitHub/Git, L^AT_EX, WireShark

Certifications: Oracle Certified Associate in Java SE 7, CompTIA 220-801 and 220-802 A+ certifications

Languages: **Native Proficiency** – English, Gujarati **Basic Proficiency** – Spanish

Cybersecurity Activities and Competitions

Raytheon Collegiate Cyber Defense Competition: 2018 Northeast Regional Competition – 3rd Place

OWASP Boston Application Security Conference 2018: Cyber Arena CTF Challenge – Best Defensive Team

OverTheWire: Completed – Bandit (Basic Bash) **In Progress** – Natas (Web Security)

HackTheBox & VulnHub: Learn offensive security mindset and workflow by attacking vulnerable lab machines

Capture the Flag: Participated in Carnegie Mellon PicoCTF 2018 and SANS Holiday Hack Challenge 2018

Experience

The MITRE Corporation

Bedford, MA

Cybersecurity Co-op

July 2018 – Present

- Developed an extensible tool in C to inspect and manipulate Network and Transport layer traffic using Netfilter Queue and Hyperscan
- Modeled the state of Transport layer streams using custom designed data structures
- Designed a testing framework in Python to verify functionality of C code using a foreign function library
- Defined and implemented an API with common triggers and effects to allow easier expansion of tool capabilities
- Maintained active communication with team members about major design decisions and project progress
- Performed QA on the new ATT&CK framework website by examining pages for errors and inconsistencies

Mon(IoT)r Lab – ReCon Project

Boston, MA

Research Assistant

January 2018 – April 2018

- Monitored network traffic generated by Internet of Things (IoT) devices for personal information leaks
- Analyzed encrypted network communication for patterns using Wireshark
- Automated data collection and classification of traffic in Python using Pandas and Scikit-Learn

Northeastern University Information Technology Services

Boston, MA

InfoCommons Analyst

September 2016 – Present

- Troubleshoot problems that students and faculty run into with ITS services, documenting solutions in ServiceNow
- Managed loaning various laptops and accessories to students while informing them of the policies
- Trained newer employees by showing them the responsibilities associated with each post

Union's United Taekwondo Academy

Union, NJ

Certified Instructor

January 2008 – August 2016

- Organized and led classes of 10–25 students
- Taught classes to all Belt ranks, white through black, and ages 3–14
- Supervised and helped individual students with the forms and combinations

Interests

Taekwondo: 3rd Degree Black belt, 2016 US Open ISKA World Martial Arts Championships Team Demo 1st place

Archery: Won gold medals in 2013 and 2014 New Jersey Archery Association Outdoor State Championship

Dance: Performed in Utsav's culture show for 2nd consecutive year, watch dance videos on YouTube regularly