

# Anuj Modi

Available: May – August 2019 (Internship), June 2020 (Full Time)

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## Education

### Northeastern University - College of Computer and Information Science

Boston, MA

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

September 2016 – Present

- **Concentration:** Cyber Operations, **Minor:** Mathematics
- **Honors:** GPA: 3.919/4.000, CyberCorps: Scholarship for Service Recipient, Dean's List since Fall 2016
- **Relevant Courses:** Computer Systems, Systems Security, Networks and Distributed Systems, Foundations of Information Assurance, Object-Oriented Design, Algorithms, Programming Languages, Theory of Computation
- **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<sup>A</sup>T<sub>E</sub>X, 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:** 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:** Participate in Carnegie Mellon PicoCTF 2018 and SANS Holiday Hack Challenge 2018

## Experience

### The MITRE Corporation

Bedford, MA

*Cybersecurity Co-op*

July 2018 – Present

- Develop an extensible tool in C to inspect and manipulate Network and Transport layer traffic using Netfilter Queue and Hyperscan
- Model 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
- Define and implement an API with common triggers and effects to allow easier expansion of tool capabilities
- Maintain 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

- Monitor the network traffic generated by Internet of Things (IoT) devices for personal information leaks
- Analyze encrypted network communication for patterns using Wireshark
- Automate 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
- Manage loaning various laptops and accessories to students while informing them of the policies
- Train 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