

# Tobias J. Schneider

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**TECHNOLOGY** *Languages:* Python, Java, JavaScript, C/C++, Bash, SQL  
*Tools & Libraries:* Wireshark, nmap, Snort, Metasploit, Burp Suite, Proxmox VE, iptables, PFSense, Postfix, Git, Node.js, Express.js, MongoDB, Mongoose  
*Operating Systems:* Linux (Debian, Kali, CentOS), BSD, Windows

**EXPERIENCE** *Software Developer - VCU Radiation Oncology* Fall 2018 - present

- Developing the web server for an application allowing physicians to track patient cancer treatments during diagnosis, treatments, and their follow up visits
- Designing/implementing a REST API using Node.js and Express.js to handle HTTP requests and perform MongoDB database transactions using Mongoose for schema validation

*Mid-Atlantic Collegiate Cyber Defense Competition* Spring 2018 - present

- Worked under pressure to defend several web servers from penetration testers
- Performed Linux/Windows server administration, patching/hardening, and firewall management
- Promptly wrote and delivered incident response and malware analysis reports as a collaborative effort
- As part of the VCU team, qualified for regional finals for 2 consecutive years (only top 8 schools out of 33 qualified)

*VCU Cyber Security Club* Fall 2017 - present

- Both learned and taught fundamental security topics such as application security (OWASP Top 10), reverse engineering binaries, and penetration testing in a hands-on learning environment

*Data Engineer Intern - United Network for Organ Sharing (UNOS)* May - August 2018

- Worked with CTO to create a dashboard visualizing core product availability and network traffic over time
- Used Java, SQL, and Tableau to build data pipelines and dashboards for UNOS executives

**EDUCATION** *B.S. - Computer Science (graduating May 2019)* August 2015 - present  
Minor in Mathematics  
Virginia Commonwealth University, Richmond, VA  
Relevant coursework:

- Cyber Security (CMSC 413)
- Computer and Network Security (CMSC 414)
- Cryptography (CMSC 415)

**AWARDS** *ODU CyberOPS'18 CTF* September 2018

- Placed in top 5 competing teams (rank 5/17)

*SANS Institute - CyberStart CTF* August 2017

- Placed in the top 3.4% of competitors (rank 133/3935)