

Tayyeb Ali

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PROGRAMMING SKILLS

- **Languages:** Python, JavaScript, Java, C, C++, PHP, HTML, CSS, SQL, MySQL
- **Technologies:** Node.js, React.js, AngularJS, Express.js, Selenium, jQuery, Bootstrap, Keras, SK-learn, Tensorflow, VMWare

TECHNICAL SKILLS

- **Skills:** Programming, GNU/Linux, Shell Scripting, Bash Scripting, DOM Scripting, Threat/Vulnerability Assessment, Software Development, Web Development, Project Management, Testing, Technical Writing, Technical Support

PROJECTS

- **DOMtegrity** Coventry, UK
Web Security/Data Analysis Sep. 2020 – Jun. 2021
 - **Web Security/Data Analysis:** Authored a dissertation titled 'DOMtegrity: An Analysis of DOM Changes made by Web Extensions' using DOMtegrity (open-source tool in JavaScript) in order to study the growth and activity of malicious extensions publicly available on browser web stores. Contributed additional features to the program DOMtegrity using JavaScript, Node.js, and Express.js to record DOM changes being made by installed web extensions and their respective HTML changes. Compiled automation scripts using Python and Selenium WebDriver to automate the entire process of downloading, installing, and testing large quantities of real-world extensions whilst recording useful data for analysis.
- **Delay Tolerant Network** Coventry, UK
Sensor Networks & Mobile Data Communications Nov. 2019 – Dec. 2019
 - **Wireless Sensor Network:** Designed a program with C++ using NS-3 to emulate a mobile node carrying messages from one stationary node to another employing the Gauss-Markov Mobility Model for mobility.
- **Banking API Penetration Test** Coventry, UK
Cyber Security Nov. 2018 – Dec. 2018
 - **Penetration Testing:** Conducted Penetration Testing on a sample banking API named 'Wondough' obtained through GitHub. Identified a variety of vulnerabilities, and assigned each vulnerability a severity level. Wrote automated scripts invoked from the command line to test for and exploit each of these vulnerabilities. Compiled a list of mitigations for each identified security flaw.
- **Network Simulation & Intrusion Detection** Coventry, UK
Operating Systems & Computer Networks Oct. 2018 – Nov. 2018
 - **Network Design:** Designed a network system using C to parse the headers of different layers of the OSI Model i.e. Ethernet, ARP, IP headers to ensure successful packet delivery using TCP. Implemented a Single-Threaded Model for packet delivery to avoid resource starvation.
 - **Intrusion Detection:** The implemented system was able to scan and detect three kinds of intrusion attempts successfully, mainly: X-MAS Tree Scan, ARP Cache Poisoning, and Blacklisted URL Data Transfer.

WORK EXPERIENCE

- **University of Warwick** Coventry, UK
Peer-to-Peer Tutoring Sep. 2018 – Jun. 2020
 - **Seminar Tutor:** Closely supported incoming freshers as a peer and mentor at the university for two years. Helped guide new students within the Department of Computer Science.

CERTIFICATIONS

- **Network⁺ (In Progress):** Working towards certification through CompTIA by familiarising myself with the design, implementation, and operation of networks.
- **Security⁺ (In Progress):** Working towards certification through CompTIA by studying network security, standards, protocols, and incident response.
- **AWS Cloud Practitioner Certification (In Progress):** Working towards a certification in AWS by familiarizing myself with the many services provided such as Amazon EC2, RDS, DynamoDB, S3, and Lex.

EDUCATION

- **University of Warwick** Coventry, UK
Bachelor of Science in Computer Science (Hons.) *Sep. 2017 – Jun. 2021*

PERSONAL INTERESTS

- **Ethical Hacking:** Learning about Cyber and Information Security, have taken Ethical Hacking courses detailing Network Exploitation, Client/Server-side Threats and Attacks including Website Exploitation.