Matthew D. Lee

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EDUCATION

City College Of New York   *New York, NY 10031*
GROVE SCHOOL OF ENGINEERING
Candidate for Master of Science in Cyber Security   **Fall 2021 - Present**
GPA: 3.68

University of Delaware   *Newark, DE 19716*
COLLEGE OF ENGINEERING
Bachelor of Science in Computer Information Systems   **Class of 2019**
                                                         Dean's List - SPR 2019

CODING AND PROJECT EXPERIENCE

Secure Cloud Computing Project

- Built a Google Docs clone application, packaged it into a container with Docker and deployed the application to the cloud with GCP.
- Created the design requirement document, implemented cloud reliability requirements and security using two-factor authentication.

Computer Communication Networks

- Designed and built a mesh topology network using Riverbed network simulation software tools.
- Captured behavior and performance metrics of the simulated network.
- Performed data analysis which included routing algorithms comparisons, determination of appropriate link capacities and average link utilization.

Penetration Testing and Ethical Hacking - Remote Access Trojan (RAT) Project

- Configured Linux VMs to act as Attacker and Victim in a Server/Client environment.
- Created a remote access Trojan virus that executed a backdoor attack to gain access to the victims' files and trigger a keylogger program.
- Completion of the project provided an understanding of vulnerabilities and security holes in a system. As the bad actor I created the virus to seize data and as the victim I executed protection methods such as trojan detection on the VM for virus analysis and validated the antivirus program.

Computer Network Security – Encryption Project
- Created a CBC substitution encryption algorithm that accepts a stream of ASCII characters and encrypts this input.
- The Vigenere cipher-based algorithm was compared to the Caesar cipher to differentiate strengths and weaknesses. Python and C were used to implement the programs.

WORK EXPERIENCE

Con Edison (Consultant)   *Aug 2020 – Oct 2021*
QA Test Engineer

- **QA testing of in-house suite of applications used by Con Edison. Involved manual, automation and API testing with DevOps integration for CI/CD.**
- **Used a ticket management system to open and close variances within the application.**

Real Time Technology Solutions   *Oct 2019 – Aug 2020*
QA Test Engineer

- **Developed by RTTS for ETL testing.**
- **Validated functional and non-functional requirements in development cycles.**
- **Architected an automation framework and automated functional tests using Selenium in Microsoft Visual Studio C#.**
- **Used SQL techniques such as nested select statements and aggregate functions to display the desired output.**

ProHealth (TekSystems)   *July 2019 – Oct 2019*
IT Engineer

- **Extensively performed log review of proprietary software records.**
- **After understanding the format of the logs, I created numerous Python scripts to aggregate the data and feed the logs into Excel for further review.**

Interdigital Communications, LLC   *June 2018 – Aug 2018*
Summer Intern

- **Supported the testing and integration efforts for the development of prototype 5G Wireless technologies.**
- **Executed testing as per the test requirement document, evaluated results and helped determine root cause of failures.**

TECHNICAL SKILLS

Languages: **C#, Java, Python, HTML, CSS, SQL**
Systems: **Windows and Ubuntu**
Tools: **Azure DevOps, React JS, Node JS, Jira, Postman, GitHub, MS Office, Google Cloud Platform, OPNET Network Simulator**