Stephan A. Loh

✉ sloh@umd.edu 🔗 in/stephanloh 🌐 sloh4137.github.io 📞 240.409.0780 ⭘ SLoh4137

N. Potomac, MD

EDUCATION

University of Maryland, College Park | May 2020

Bachelor of Science, Computer Science | Minor in Viola Performance

GPA: 4.00 | Advanced Cybersecurity Experience for Students Honors College | Banneker/Key Scholar

SKILLS & COURSEWORK

Programming: Java, C, JavaScript, HTML, Unix, Python, Ruby, OCaml, Prolog, CSS, PySpark, Bash, SQL, Matlab

Languages: Chinese (bilingual)

Coursework: Data Structures, Algorithms, Computer Systems, Programming Languages, Object-Oriented Programming, Discrete Structures, Linear Algebra, Statistics, Unix, Cybersecurity, Reverse Engineering

EXPERIENCE

National Security Agency/University of Maryland | IoT Analytics Research Intern | May to August 2017

- Designed and implemented a Random Forest machine learning model that classified Internet of Things device by type and brand through analyzing network traffic
- Collaborated with a team to develop PySpark code using JupyterHub and GitLab. Spearheaded the original codebase using a linear regression model and laid the groundwork for the Random Forest machine learning algorithms.
- Overcame difficulties with sluggish runtimes by minimizing the use of user-defined functions

Advanced Cybersecurity Experience for Students | Banneker/Key Scholar | August 2016 to May 2018

- Cybersecurity focused Honors College that teaches students various cybersecurity concepts including how to use Unix systems, setting up honeypots, and reverse engineering
- Developed scripts for extracting data, setting up honeypots, and recycling honeypots. Encountered difficulties collecting data due to recycling frequency and assumptions made. Learned that project design must be flexible and the method of implementation can lead to unforeseen circumstances

Taiwanese American Student Association (TASA) | Internal Vice President | May 2017 to May 2018

- Director of internal bonding, member retention, and the big/little family system
- Organized and led events for members to meet new people. Devised icebreakers and coordinated logistics for events
- Developed the search and family tree visualization systems for the TASA website

PROJECTS

RagerPager (PennApps @ University of Pennsylvania) | January 2017

- A webapp targeting college age student that finds the most popular locations in your area using the GoogleMaps API, Firebase, and Javascript

SudokuSolver | February 2017

- A Sudoku solving tool written in Java. Can input values from a written Sudoku to complete digitally

UrbanWordCompletion | November 2016

- A Java program that looks up a given word and finds words similar to it on Urban Dictionary's popular page. Uses threads to parse the HTML page and calculates the similarity between parsed words using the Levenshtein algorithm