Richard Luo

luo.richard@gmail.com
(408) 816-6915
https://www.linkedin.com/in/richardluorl/
https://github.com/Skyline-9
https://skyline-9.github.io/
United States of America

Education

Georgia Institute of Technology, *B.S. Computer Science, 4.0 GPA* Atlanta, USA

Expected Graduation: December 2023

- GT Agency (Machine Learning Club) - Vice Internal Operations
- GreyHat (Cybersecurity Club)- Vice President

Relevant Coursework: Linear Algebra, Multivariable Calculus, Intro to Algorithms and Data Structures, Intro to Discrete Maths

Professional Experience

Georgia Tech Security Operations Center, *Cyber Security Analyst* 2021/06 – Current

Identified and mitigated security incidents with FireEye and Palo Alto Networks Cortex XSOAR, triaged incoming threats, and managed network traffic. Reviewed compromised systems and worked alongside system administrators to appropriately mitigate any active threats

Georgia Tech Research Institute, *Undergraduate Research* 2021/01 – Current

Researched privacy-preserving biometric under the supervision of Dr. Wenke Lee. Built applications with React.js/Tensorflow.js for remote biometric authentication using deep learning recognition schemes to bridge deep learning inferences with standard privacy-preserving primitives like fuzzy extractors.

Skills

Cybersecurity, Python, Java, C++, Computer Networking, Git, Cryptography, Algorithms, Data Structures, Intellij, CLion, PyCharm, Machine Learning, Chinese, Penetration Testing, C, Cloud Computing, Flask, Ghidra, MATLAB, Postman, Wireshark, Virtual Box, Visual Studio, VMWare, Tensorflow, Tensorflow.js, HTML, CSS, React, Bash, Google Cloud

Awards

BSidesBOS CTF (Top 1% Worldwide) 9th Place 2020

CSAW CTF Finalist Qualifier 2020

CUCTF 2nd Place Winnter 2020

Projects

Sketch2drawings 2021/02 – present

Using Conditional Generative Adversial Networks (cGANs), Sketch2drawings performs paired image-to-image translation on sketches and drawings. This deep learning mapping allows the project to turn a black and white sketch into a colorized drawing.

COSMOS Roachbot 2018/06 – 2018/07

Developed an autonomous light-sensing robot to self-navigate a maze to automatically hide in the dark. Implemented in C on a 32-bit MIPS Microcontroller using MPLAB-X.

GoodbAI 2020/08

Using deep learning and OpenAI's GPT-2, GoodbAI aims to clone the natural language of a user/person. The first model was trained on Kobe Bryant's tweets, web-scraped using TWINT. For dataset based on tweets, GoodbAI is able to recognize handles (@user), emojis, and hashtags.

Certifications

Machine Learning, *Coursera*

Neural Networks and Deep Learning, *deeplearning.ai*