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, Combinatorics, Intro to AI, Objects and Design, Computer Org and Design

Professional Experience

Georgia Tech RAIL Lab 2021/08 – present | Atlanta
Working with Dr. Chernova in Robot Autonomy & Interactive Learning (RAIL) Lab on smart-home active assistance

Georgia Tech Security Operations Center, *Cyber Security Analyst* 2021/06 – 2021/08 | Atlanta
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 – 2021/08 | Atlanta
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

Java, Python, C++, C, Machine Learning, Deep Learning, Git, Algorithms, Intellij, PyCharm, Numpy, Cloud Computing, Postman, Wireshark, Tensorflow, HTML, CSS, Javascript, React.js, Bash, Google Cloud, Docker, Chinese, SQL

Awards

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

CSAW CTF Finalist Qualifier 2020

CUCTF 2nd Place Winnter 2020

Projects

U2 Background Removal 2021/06 – present
State-of-the-art deep-learning based background removal built with U2-Net, a concise yet powerful deep network architecture for salient object detection

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.

GoodbAI 2020/07 – 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*

Structuring Machine Learning Projects, *deeplearning.ai*