Richard Luo

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Education

Georgia Institute of Technology, *B.S. Computer Science, 4.0 GPA* 2023 (Expected) | Atlanta, USA

Professional Experience

Georgia Tech College of Computing, 2021/01 – present | Atlanta, USA
Undergraduate Student Researcher

- Researching Privacy-Preserving Biometrics under the supervision of Dr. Wenke Lee and Erkam Uzun
- Building applications for remote privacy-preserving biometric authentication and recognition schemes

Skills

Java, Python, C, C++, HTML, CSS, Javascript, Linux, Cybersecurity, Computer Networking, Git, GitHub, Algorithms, Data Structures, Machine Learning, Cloud Computing, Embedded Systems, APIs, Postman, Ghidra, Burp Suite, React, Tensorflow.js, Tensorflow, Docker, Google Cloud, sklearn, NumPy, Deep Learning, Flask

Awards

CUCTF 2020, *2nd Place Winner* 2020

CSAW CTF, *Finalist Qualifier* 2020

BSidesBOS CTF, *Top 1% Worldwide* 2020

Stanford Programming Competition, *1st Place Winner* 2019

USA Computing Olympiad Gold 2017

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.

GoodbAI, *Solo Project* 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.

COSMOS Roachbot 2018
Used C to develop an autonomous light-sensing robot that could self-navigate a maze to automatically hide in the darkness.

Courses

Machine Learning, *Coursera*

Structuring Machine Learning Projects, *deeplearning.ai*

Neural Networks and Deep Learning, *deeplearning.ai*

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization, and Optimization

Intro to Algorithms and Data Structures, *Georgia Institute of Technology*