

Richard Luo

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🇺🇸 United States of America

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, Embedded Systems, Postman, Ghidra, Burp Suite, React, Tensorflow.js, Tensorflow, Docker, Google Cloud, sklearn, NumPy, Deep Learning, Flask, MPLAB-X

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 Adversarial 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

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.

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*