

Richard Luo

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in <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, *Research Assistant*

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 Researcher*

2021/01 – 2021/08 | Atlanta

Researched privacy-preserving biometric authentication under the supervision of Dr. Wenke Lee. Built frontend with React.js/Tensorflow.js for facial recognition and detection and implemented OAuth 2.0 Authorization/Identity server for SSO using Java/SQL backend.

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 Winner

2020

Projects

InvestigatAR 🔗

2021/10 – present

Powered by React Native/ViroAR in the frontend and Java Spring Boot/MongoDB in the backend, this app allows users to view a 1-1 Augmented Reality replica of a product just by scanning a QR Code or running object detection as well as read crowdsourced reviews and sustainability ratings. Built Flask server and Pytorch YOLO object detection model API, created backend endpoints in Java Spring Boot, and made API calls using Unirest and Axios.

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

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 🔗