KRISTOPHER LUO

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Education

Clemson University   **August 2019 – May 2023 (expected)**
B.S. in Computer Science, Minor in Business Management   *Clemson, SC*

- Presidents List 2020 – Present (**4.0 GPA**)
- Member of the Clemson Honors College Program
- **Relevant Coursework**: Algorithms & Data Structures, Applied Data Science, Operating Systems, Software Development, Network Programming, Discrete Structures, 2D Game Engine Design, Computer Organization, Programming Systems

Experience

Moody's Investors Service   **June 2022 – August 2022**
Software Engineering Intern   *Remote*

- Proposed and implemented the use of **proxy servers** to store data from external calls in API tests
- Developed over **150 integration tests** for Moody's big data rating application for over **30,000** issuers, increasing maintainability and function cohesiveness
- Contributed to the **RESTful service** development of a company infrastructure application

Giant Oak   **January 2022 – May 2022**
NLP Research Intern   *Remote*

- Researched and refined the Giant Oak **named-entity recognition** pipeline
- Proposed a translation step, enhancing accuracy to **97%** and optimizing performance and training costs
- Implemented a data augmentation step to increase training batch size up to **200%**
- Incorporated a text quality step to filter out **90%** of low quality data and lingering HTML text in GOST data

Clemson University, Department of Computer Science   **May 2021 – August 2021**
Machine Learning Research Intern   *Clemson, SC*

- Researched machine learning algorithms and AI models to detect Deepfake usage in videos
- Studied multiple different detection methods such as observing inconsistent corneal specular highlights

Clemson University, Department of Engineering   **May 2019 – August 2019**
Data Analysis Intern   *Clemson, SC*

- Analyzed and modified traffic data collected from Clemson's roads for autonomous vehicle research
- Contributed to the training of convolution neural networks on the collected data

Projects

Personal Portfolio | *JavaScript, HTML, CSS*

- Developed a website documenting information about me and the work I have done
- Link to website: https://kristopherluo.vercel.app/

Sudoku Solver | *Python*

- Built a GUI and implemented the logic for a sudoku application using Pygame
- Implemented a backtracking algorithm to solve the puzzle with an animation

Skills / Interests

Skills: C++ (4 yrs), Python (3 yrs), C (3 yrs), Java (2 yrs), front-end web development (1 yr)
Interests: Soccer, Weightlifting, Chess, Saxophone, Delta Chi Fraternity