Luke Liang

Oxford, OH | https://lukeliang.dev | (513)-255-2909 | liangl5.prog@gmail.com

SKILLS

Expert: Python, Network Science, AI/ML, Javascript
Proficient: C++, Java, Linux, Git, ReactJS, HTML/CSS, Node.js, MySQL, HPC, Docker, R, SAS

WORK EXPERIENCE

Miami University   **Oxford, OH**
Teaching Assistant (Machine Learning & Algorithms)   *August 2022 - December 2023*
- Led and published a final research project that evaluated the performance of several ML models and data compression techniques **(Python, ML)**.
- Tutored students in Python, data structures, algorithms, and ML.
- Provided feedback and graded exams, homeworks, quizzes, and projects for students.

JPMorgan Chase & Co   **Chicago, IL**
Software Engineering Intern   *June 2022 - August 2022*
- Converted existing AngularJS internal software to ReactJS with a full-time team. Deployed the updated framework that is used throughout the entire bank **(ReactJS, Jenkins)**.
- Won the Code for Good Hackathon 2022 with a web-based project to revamp a non-profit organization's website with a group of other interns **(Javascript, MySQL)**.
- Integrated legacy pages with new internally developed APIs and updated corresponding technical documents.

PROJECT EXPERIENCE

Miami University   **Oxford, OH**
Undergraduate Researcher   *August 2021 - August 2024*
- Published 4 papers focused on ML and network science (1 first author, 3 co-author) (Google Scholar). Two first author manuscripts involving web applications and simulation are under construction.
- Created a self-contained web-based project via Docker that houses a simulation platform for researchers at the CDC to evaluate policy effectiveness on youth suicide prevention **(Python, Laravel, Docker, HPC)**.
- Applied machine learning models and several methods to augment input data to accurately (up to 90% in certain cases) differentiate between erroneous and correct simulation models **(Python, ML)**.
- Developed a simulation of HIV drug resistances and mutations to evaluate treatment efficiency **(Python)**.

EDUCATION

Miami University   **Oxford, OH**
BS in Computer Science, BS in Data Science, Math Minor (GPA: 3.86)   *August 2021 - May 2024*
- Astronaut Scholarship (national), Choose Ohio First Machine Learning Scholarship, Summa Cum Laude, Honors College
- Received training at University of Tennessee (National Science Foundation sponsored) for machine learning and data science through the HPC at Oak Ridge national laboratory (only student selected).

LEADERSHIP EXPERIENCE

Tau Beta Pi - The Engineering Honor Society   **Oxford, OH**
Chapter President   *May 2023 - May 2024*
- Established the chapter as an official club through student government to receive funding for recruitment, social, and service events.
- Increased membership and community engagement by over 70% after inactivity due to COVID.