

# Luke Liang

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## SKILLS

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**Expert:** Python, Network Science, AI/ML, Javascript

**Proficient:** C++, Java, Linux, Git, ReactJS, HTML/CSS, Node.js, MySQL, HPC, Docker, R, SAS

## WORK EXPERIENCE

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### Teaching Assistant (Machine Learning & Algorithms)

Aug 2022 - Dec 2023

*Miami University*

*Oxford, OH*

- 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.

### Software Engineering Intern

Jun 2022 - Aug 2022

*JPMorgan Chase & Co*

*Chicago, IL*

- 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

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### Undergraduate Researcher

Aug 2021 - Aug 2024

*Miami University*

*Oxford, OH*

- 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 preparation.
- 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

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### BS in Computer Science, BS in Data Science, Math Minor (GPA: 3.86)

Aug 2021 - May 2024

*Miami University*

*Oxford, OH*

- 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

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### Chapter President

May 2023 - May 2024

*Tau Beta Pi - The Engineering Honor Society*

*Oxford, OH*

- 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.