Kaitlyn Li

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EDUCATION

The University of Chicago, *Bachelor of Science in Computer Science and Data Science* Chicago, IL
GPA: 3.89 | Honors: Dean's List 2021-22 Expected, June 2025
Coursework: Introduction to Computer Science I&II, Introduction to Computer Systems, Discrete Mathematics, Theory of Algorithms, Introduction to Data Engineering, Introduction to Database Systems, Introduction to Formal Languages, Introduction to Human-Computer Interaction, Introduction to Data Science I&II, Mathematical Methods for Data Science I&II, Models in Data Science

EXPERIENCE

UChicago Human-Robot Interaction Lab Chicago, IL
Research Intern June 2024 - Present
- Partnered with local educators to design a study testing the use of robots in social-emotional learning for children
- Developed and trained a large language model using Python for deployment in a Misty robot
- Analyzed video interviews with educators to inform experiment design and reviewed videos of students to identify signs of anxiety and enhance robotic interaction strategies

University of Chicago Chicago, IL
Teaching Assistant September 2023 - June 2024
- Facilitate discussion sessions of over 15 students and office hours for Introduction to Computer Science I and Computer Science for Data Science
- Collaborate with professors to develop homework materials and automated testing functions
- Guide over 50 students per term through discussions, review problems, and issues understanding the course material

University of Chicago Data Science Institute Chicago, IL
Research Assistant June 2023 - August 2023
- Engineered the Sociome Data Commons to accommodate diverse datasets on a wide variety of factors and ensure scalability
- Collaborated with over 10 researchers to identify their needs and incorporate features that met them to implement a user-friendly interface tailored to researcher's requirements
- Leveraged feature reduction techniques to build predictive models for children with asthma on the South Side of Chicago to better understand possible interventions to minimize disease severity
- Contributed statistical findings to "Sociome Data Commons: A Scalable and Sustainable Platform for Investigating the Full Social Context and Determinants of Health" published in the Journal of Clinical and Translational Science

LEADERSHIP & ACTIVITIES

UChicago Tech Team Chicago, IL
Member September 2023 - Present
- Develop software and data-driven solutions to provide non-profits and policy institutions tools to strengthen their mission and optimize their resources
- Utilize Azure and Power BI to create and interactive dashboards with over 50 visualizations, transforming raw data into actionable business insights

Delta Gamma Fraternity - Eta Zeta Chapter Chicago, IL
Vice President of Social Standards April 2023 - Present
- Mediate conflict and communicate calmly and professionally in sensitive situations
- Uphold and enforce all policies while fostering a culture of care and personal accountability for over 125 members

Dear Asian Youth Chicago, IL
Team Member October 2021 - Present
- Promote over 50 local businesses for the annual AAPI Restaurants Week hosted by OCA Greater Chicago
- Boost voter confidence in the 40th and 50th wards prior to the March 2024 primary elections with the Indo American Center

PROJECTS

Sociome Data Commons - Python, CSS, HTML
- Open-source project that facilitates uploading, storing, and accessing datasets for researchers to use
- Encourages further study of wider ranges of social determinants of health rather than just one determinant or a set of related determinants in order to avoid potential loss of nuances and interactions between factors

Bounded Degree Minimum Spanning Tree - Python
- Attempts to find the least cost spanning tree that satisfies bound constraints on each node by modifying known algorithms such as Kruskal's algorithm and Prim's algorithm

SKILLS

Python, SQL, C, HTML, CSS, Rust, R, Pandas, NumPy, scikit-learn, Django, Git, Linux, Data Analytics, Adobe Suite, Google Workspace, Microsoft Office