KATIE LAM

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EDUCATION

Northwestern University   **Evanston, IL**
Bachelor of Arts in Data Science   Expected June 2027
- **GPA: 3.88/4.00** | **ACT: 35**
- **Honors:** Dean's List 3 of 3 quarters

Course Highlights
- **Data Science I with Python–** exploring Pandas and NumPy libraries to hone foundational algorithmic and logical reasoning and utilize statistical measures and visualization tools to uncover insights, identify outliers, and detect patterns in data
- **Data Visualization–** utilizing ggplot2 and tidyverse libraries in R to transform real-world datasets as readable, aesthetic, and interactive graphics and dashboards. View dashboard here: https://lamkatie.github.io/portfolio/
- **Linear Algebra–** identifying linearly independent sets of vectors, finding eigenvalues and eigenvectors of a matrix, and calculating the characteristic polynomial of a square matrix
- **Social Networks Analysis–** determining centralities (betweenness, closeness, eigenvector) of social networks and interpreting directed and undirected data through Exponential Random Graph Models (ERGMs) and Autologistic Actor Attribute Models (ALAAMs). View paper analysis here: https://lamkatie.github.io/portfolio/

Notre Dame High School   **San Jose, CA**
- **GPA: 4.00/4.00 UW, 4.72 / 4.00 W**   May 2023
- **Honors:** Highest Academic Honors, National Honor Society, California Scholarship Federation
- **Relevant Coursework:** achieved 5s on AP exams in: Computer Principles, Computer Science A, Calculus BC

LEADERSHIP & ACTIVITIES

Develop + Innovate for Social Change Club   **Evanston, IL**
Project Team Member   January 2024 – Present
- Develop extensive database and web interface for the Evanston Animal Shelter to track future food and hygiene inventory and client demographics through Amazon Relational Database Service utilizing Python, SQL, and React programming

Northwestern University Ukulele Club   **Evanston, IL**
Co-Founder and External President   October 2023 – Present
- Define club's mission on emphasize the celebration of Asian-Pacific culture
- Recruit general and executive members through social media
- Strategize methods for obtaining university funding
- Spearhead event programming details, marketing strategies, and communication with the Faculty Advisor

NU Nights   **Evanston, IL**
Marketing Assistant (2023), VP of Programming (2024)   September 2023 – Present
- Organize and promote weekly, student-led recreational events such as board game nights and karaoke

RESEARCH & VOLUNTEER EXPERIENCE

Carleton College, Summer Liberal Arts Institute   **Northfield, MN**
Research in the Humanities   July 2022 – July 2022
- Author 10-page research paper and presentation on Tridentine dissent towards secular music as to retain emphasis of purity in liturgical music through Giovanni Pierluigi da Palestrina's Missa Papae Marcelli

ResearcHERS Women Fighting Cancer   **San Jose, CA**
Head Junior Ambassador   December 2021 – June 2022
- Fundraise for the campaign's Silicon Valley ACS Branch by promoting in schoolwide volunteering fairs and music concerts with all proceeds donated to the program
- Present new marketing and outreach methods to the ACS board of professional fundraising organizers and other high school ambassadors
- Raise $1000+ in individual campaign and $86,000 collectively

ADDITIONAL

Skills: Intermediate knowledge of Python, R, Java, SQL, Scratch, Adobe Creative Cloud, and Google Suite
Languages: English (Native), French (Intermediate)
Interests: Playing volleyball, Performing in choir, Composing music, Collecting ukuleles, Exploring cultural cuisine