Roxy Wilcox • 925.324.4758 • roxygwilcox@gmail.com

EDUCATION

Northwestern University – BA in Computer Science (3.81 / 4.0)   Sept '18 – June '22

- **Coursework**: Data Structures & Algorithms, Design & Analysis of Algorithms, Human Computer Interaction, Introduction to Computer Systems, Mathematical Foundations of Computer Science, Multiple Integration & Vector Calculus, Statistics for Social Sciences.

PROJECTS

COVID-19 Visualizations – **Product Manager & Frontend Lead** • Evanston, IL   March '20 – June '20

- Ingested COVID-19 data for the Chicago startup, Rheaply, who was pioneering a PPE resource exchange.
- Expanded the scope of the project based on my development team's capabilities to use the ingested data to create visualizations and a webpage.
- Conducted user research to determine which COVID data representations would be most useful.
- Designed visualizations that showed the effects of each phase of the Illinois Stay at Home Orders on number of cases, amount of testing conducted, and number of unemployment claims filed.
- Ensured that weekly goals were both met by development team and communicated to client.
- Worked on the Frontend team to produce visualizations and a webpage with React.

EXPERIENCE

Northwestern CS Department – **Teaching Assistant** • Evanston, IL   Sept '20 – Present

- TA for CS 111: Fundamentals of Computer Programming, the largest CS course at Northwestern.
- Teaching a weekly tutorial section on fundamental topics such as functional programming and recursion and working with the instructor to design content for future sections.
- Leading office hours to help students with programming assignments and conceptual questions.

Northwestern CS Department – **Advisory Board Member** • Evanston, IL   Sept '20 – Present

- Proposing and implementing ideas to make coding classes more accessible by offering non-majors smaller certificates programs to achieve specific computer science skills such as basic programming, web design, UI/UX, and Game Development.

RESEARCH

Northwestern CS Department – **Researcher** • Evanston, IL   July '19 – March '20

- Designed a model using Natural Language processing to predict when a subject needs help while completing the Tower of Hanoi task.
- Used logic to create formal language rules that dictated robot assistance based off the subject's vocal cues and implemented those rules in Prolog.

THEATRE EXPERIENCE

- Song Cycle, *Olive* – Jewish Theatre Ensemble (Northwestern U.)
- Cendrillon, *Master of Ceremonies* – Northwestern University Vocal Performance Seminar
- Trial by Jury, *Soprano* – Opera Projects for University Singers (Northwestern U.)
- Gonzales Cantata, *Soprano* - Opera Projects for University Singers (Northwestern U.)
- Danceworks, *Costumes and Set Crew* – Wirtz Mainstage (Northwestern U.)
- Legally Blonde, *Production Team* – Freshman Musical (Northwestern U.)
- In the Heights, *Director* – Monte Vista Theatre Arts

SKILLS

Coding Languages: Python, C++, Scheme (Racket), HTML/CSS/Javascript

Languages: English (native), Spanish, basic Farsi/Persian

Theatre: Opera, Musical Theatre, Dance (Pointe, Contemporary, Jazz), and Comedy