

SABRINA LIANG

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EDUCATION

University of Massachusetts, Amherst

Expected Graduation: May 2024

Computer Science (M.S.)

GPA: 3.94

Award: Bay State Fellowship

Computer Science (B.S.), Mathematics (B.S.), Art History (Minor)

September 2019 - May 2022

Awards: Dean's List, CRC Press Chemistry Achievement Award

GPA: 3.77

Relevant Coursework:

Algorithm for Data Science, Advanced Algorithm, Reinforcement Learning, Probabilistic Graphical Models, Search Engine, Statistical Computing, Applied Statistical Learning, Randomized Algorithm

WORK EXPERIENCE

Teaching Associate & Assistant

September 2022 - Present

Employer: CICS - University of Massachusetts - Amherst

- Instruct first-year seminars and core undergraduate courses, fostering a supportive environment for freshmen entering Computer Science.
- Develop course plans, materials, and assignments to ignite interest in the field.
- Provide academic support through office hours, addressing conceptual challenges, debugging, and optimization.
- Lead engaging discussions to reinforce understanding of lecture materials including Git workflow, web development, general programming methodology, and algorithm designs.
- Maintain and update the course website using Git for easy resource access.

Software Development Engineering Intern

May 2022 - August 2022

Employer: Amazon

- Collaborated with experienced engineers and managers to design and define an intern project, addressing abstract problems and enhancing existing services.
- Produced well-structured design documents and knowledge transfer materials to ensure project continuity.
- Developed customer-facing interfaces using Java, Spring Framework, and React.
- Contributed to an agile development environment, delivering high-quality code within specified timelines.

Research Assistant

August 2021 - May 2022

Topic: *Quantifying human biases and the effects of visualizations presented*

- Created interactive surveys as requested by PI for the study using JavaScript, CSS, html, and Qualtrics.
- Attended weekly meetings and discuss methods of measurements for human biases and validity of measurements, and weekly progresses.
- Proposed improvements to surveys identified through the user feedbacks and responds to survey.

PROJECTS

Sports Betting Dashboard

Dashboard providing analyzed information about sport bets for educational purposes. Course project.

- Collaborated in a team of three, utilizing GitHub for version control and efficient collaborative coding efforts.
- Designed and built UI/UX with Figma and ReactJS, emphasizing accessibility and usability.
- Scraped data from various sports betting websites using the Python requests library and analyzed it with Pandas.
- Generated comprehensive documentation from the initial design to README for each module of the software.

SKILLS

Programming Languages: R, JavaScript, Python, Java, PostgreSQL

Software & Tools: Latex, Microsoft Office, Github, HTML, Pandas, NumPy, Linux, Scikit-learn