

JESSY MA

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EDUCATION

Brown University

Computer Science & Environmental Studies

Expected graduation May 2021

3.9 GPA

Relevant coursework: Algorithms & Data Structures, Computer Systems, Object-Oriented Programming in Java, Statistical Inference, Discrete Structures & Probability

TECHNICAL SKILLS

Experienced with Java, Python, JavaScript, HTML/CSS.

Familiar with C, React Native, Git.

PROJECTS

Macroinvertebrates (2018)

Mobile App – Research Project

Using React Native to continue developing mobile app for website macroinvertebrates.org as an independent project.

Brown Meal Share (2018)

Website – Independent Project

Responsive meal credit sharing website involving forms, membership, and backend database. Developing front end with HTML/CSS and JavaScript.

Othello (2017)

Game – Academic Project

Game coded in Java with human vs. human, human vs. computer, and computer vs. computer modes of play. Computer has three intelligence levels based on minimax algorithm.

WORK EXPERIENCE

Brown Department of Computer Science

May 2018 - present

Undergraduate Teaching Assistant

Providence, RI

- Hold TA hours, discussion sections, and labs for 7 hours per week to teach Java for CS15: Introduction to Object-Oriented Programming
- Update and improve lecture content used to teach 400+ students
- Grade homework assignments and projects for 8 hours per week

Kellner Lab

Sep 2018 - present

Research Assistant

Providence, RI

- Analyze forest remote sensing data collected from airborne imaging spectroscopy and LiDAR

Carnegie Mellon Human-Computer Interaction Institute

May - Aug 2018

Research Intern

Pittsburgh, PA

- Conducted 10 usability test interviews for alpha version of insect identification website and recommended most important changes
- Designed and tested prototypes of a user-centered mobile companion app for the website and began development using React Native
- Implemented new website features to improve usability

WBRU

Feb - May 2018

Mobile Development Intern

Providence, RI

- Designed prototypes for a new iOS app for an internet radio station

Farm Fresh Rhode Island

Oct - Dec 2017

Food System Enterprise Intern

Pawtucket, RI

- Communicated with producers and consumers to update and improve online ordering platform
- Compiled delivery route data and calculated order delivery minimums using Excel to optimize cost efficiency
- Used Excel pivot tables to analyze sales data

LEADERSHIP

Student Council

2013 – 2017

Class President, Community Relations Chair

Dublin, OH

- Led class council to organize 4+ school-wide events per year for nearly 2000 students, managed community service events and charity drives

Principal's Advisory Council

2016 - 2017

Academic Chair

Dublin, OH

- Designed and led team of 17 to paint large mural in 80 hours in 1 week
- Chosen by principal to represent student body and discuss school issues

360 Tutoring

2015 - 2017

Co-Founder & Tutor

Dublin, OH

- Co-founded ACT tutoring business and privately tutored 15 students, achieving score increases of 2 to 5 points
- Maintained Weebly website and utilized social media for marketing

ACTIVITIES

Dance, various hip-hop performance dance groups

Hackathons, YHack '17, Hack@Brown '18, Hack This. Help Kids. '18

Women in Computer Science (WiCS)

Rewriting the Code (RTC)

Christian Union at Brown, Communications Assistant

Food Recovery Network