Jessica Burroughs

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Education

B.S. in Computer Science Sept. 2020 – Present
University of Washington *Seattle, WA*

- Expected Graduation: June 2023
- GPA: 3.93/4.00
- Relevant Courses: Data Structures and Parallelism, Linear Algebra, Discrete Math
- Extracurriculars: Advanced Robotics

Experience

Software Development Engineer Intern June 2021 – Aug. 2021
Amazon *Seattle, WA*

- Migrated a service from AWS Lambda to AWS Fargate to eliminate latency from customer requests being fulfilled and provide a more consistent experience for customers
- Awarded for demonstrating Bias for Action by participating in an Amazon intern video project that will be used to recruit future interns

Computer Vision Team Member Oct. 2020 – Present
Advanced Robotics at University of Washington *Seattle, WA*

- Updated the code for the neural network models from PyTorch to PyTorch Lightning for readability and faster compute time purposes
- Added Tensorboard graphs to the neural network models to log the losses and predicted images

Research Team Lead & Data Visualizer Aug. 2020 – July 2021
Mind My Mind *Remote*

- Lead a team of 10 people to create mental health infographics with the help of Dr. Claire Cameron at the University of Buffalo
- Raised meeting participation about 67% by communicating effectively with my members
- Visualized data showing the impact of COVID-19 on mental health using Python and Excel

Computer Science Summer Institute Participant 6 July 2020 – 31 July 2020
Google *Remote*

- Worked alongside Google engineers and CSSI participants to develop my skills in p5.js, HTML, and programming fundamentals
- Collaborated with a partner to utilize p5.js and its sound and collide2D libraries to create a final project intended to make learning basic algebra exciting for children

High School Software Developer Intern June 2019 – Aug. 2019
Microsoft *Redmond, WA*

- Learned Python and machine learning in 3-4 weeks to build a model that classified pull requests into varying levels of risk to help developers prioritize their time
- Achieved a machine learning model with 97% accuracy and 96% precision

Projects

Bubble Math | *JavaScript, HTML, CSS* Oct. 2020

- Developed a web game with a team using JavaScript to program game elements and HTML and CSS to finalize the frontend to make basic algebra fun to learn

Sentiment Analysis on COVID Reopening | *Python, Keras, Natural Language Toolkit* Sept. 2020

- Developed a machine learning model that analyzes tweets from US states and returns if they're lenient, neutral, or against reopening

Technical Skills

Languages: Java (proficient), Python (proficient), JavaScript (novice), HTML/CSS (novice), R (novice)
Libraries: Pandas (proficient), NumPy (proficient), Matplotlib (proficient), Scikit-learn (proficient), PyTorch (novice), Keras (novice)