Catherine Sawyer

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Education

Georgia Institute of Technology - MS Computer Science - GPA 4.0 - April 2024
Brigham Young University - BS Mathematics - Minor: Computer Science - GPA 3.77 - April 2020

Languages and Skills

Languages - Python (Django, Numpy, Pandas, SciPy, Tensorflow, Flask), JavaScript (Node.js, React, etc), AWS (RDS, ECS, SQS, etc), HTML, CSS, Java, SQL (PostgreSQL, MySQL, SQLite), MongoDB

Management - Led several teams of various sizes in technical curriculum development across a variety of topics and projects. Specializing in managing a remote work environment. Emphasis on servant leadership.

Teaching and Curriculum Development - Created and taught courses ranging in size from 1:1 to 200+ students. Maintained and supervised a full-stack Software Development bootcamp.

Machine Learning - Helped write a successful proposal for $3 million NSF grant to develop a year-long ML course for high school students. Built coursework and example models for students learning ML concepts across a variety of learning levels.

Experience

Senior Full Stack Engineer - Aerial Data Labs   Oct 2022 - Present
- Conceptualize and execute innovative ideas to drive the company's vision and goals, leveraging my expertise in AWS services such as SQS, ECS, and RDS.
- Enhance API capabilities and introduce microservices for automatic geo-tiff tiling.
- Mentor junior engineers to foster their growth and development.
- Collaborate with cross-functional teams to plan and prioritize roadmap initiatives.

Associate Program Manager - ThriveDX (Formerly HackerU)   Sep 2021 – Sep 2022
- Managed an engineering team of 8 that produced both course content and developed internal software tools in a remote work environment
- Created, implemented, and tracked individual and team performance benchmarks and metrics
- Helped run Scrum meetings and promoted an Agile working environment
- Utilized CI/CD for our Software Development bootcamp, ensuring quality and up-to-date content as new technologies arise and current technologies were updated

Chief Curriculum Developer - The Coding School   Apr 2020 – Sep 2021
- Managed several 2-3 person teams responsible for tasks including content creation and teaching
- Created six 1- and 2-week camps designed to teach students a variety of skills ranging from web development to cybersecurity to machine learning. Taught the summer camps to about 200 students

Linux Technical Intern - Intel Corporation   May 2019 – Aug 2019
- Built Selenium web crawler application to retrieve commonly referenced website analytics
- Created Python Flask web applications for software demos

Teaching Assistant - Brigham Young University   Sep 2018 – Apr 2020
- Taught class of 60+ students covering principles of algorithm design and analysis
- Used LaTeX formatting language to compose curriculum for course

Research Assistant - Brigham Young University   Sep 2017 – Sep 2018
- Earned $1500 ORCA grant to continue research on nontrivial polynomials
- Led team of 2 on algorithm development for multivariate root finding

Data Analyst - Wright State University Boonshoft School of Medicine, *Beavercreek, OH* Sep 2016 – Dec 2016
- Developed SAS program for analyzing more than 20 years of NAMCS database data
- Presented findings with advising physician at a medical conference in Pittsburgh, PA