MICAH HELEN REID

Github: https://github.com/mhreid
Portfolio: https://mhreid.github.io/

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EDUCATION

Olin College of Engineering, Needham, MA—
*B.S. in Engineering with Human Centered Computing;
Class of 2021 (3.84 GPA)*
SEPTEMBER 2017 - PRESENT

Relevant coursework: Modeling and Simulation in Python, Software Design, Principles of Engineering, Linear Algebra/Vector Calculus (Linearity). User Oriented Collaborative Design, Data Structures and Algorithms, Machine Learning**,** Discrete Math

EXPERIENCE

PillPack (an Amazon Company), Somerville, MA—
Software Engineering Intern
MAY 2019 - AUGUST 2019

Implemented new workflows and internal tooling saving PillPack 100+ hours of manual labor using Ruby on Rails, Javascript, and Python for data science and machine learning tasks. Initiated new data science effort for company-wide use.

Smile Shade, Needham, MA— *Founder*
APRIL 2016 - SEPTEMBER 2018

Invented and led design of Smile Shade, an IoT lighting treatment for seasonal affective disorder. Software lead for app development (in Sketch and React Native), physical prototyping, and managed a team of four. Smile Shade was covered by MacWorld, DigitalTrends, Snapmunk) and more

Harvard Berkman Klein Center for Internet and Society, Cambridge, MA— *Research Assistant*
JANUARY 2018 - MAY 2018

Created visual communication for the public about topics such as the digital economy and AI and Machine Learning ethics. Designed educational experiences to teach young students about AI.

Olin College of Engineering— *Psychology Research Assistant*
JANUARY 2018 - MAY 2019

Research assistant under Dr. Jonathan Adler at Olin College in the psychology department. Research in narrative identity psychology with a focus on individuals with disabilities. Main tasks included analyzing and coding language in life story interviews. **Co-author of paper to be published in the Journal of Personality**

Modeling and Simulation in Python, Olin College of Engineering— *Teaching Assistant*
SEPTEMBER 2018 - DECEMBER 2018

Taught programming and python fundamentals, and basics of scientific modeling.

SKILLS

Python, Arduino/C++,
Java, Ruby on Rails, Javascript,
App Development, Swift, React
Native, HTML, CSS,
UI Design, UX Design, Sketch,
Figma, Neural Networks,
Machine Learning,
User Oriented Design

PROJECTS

Smart Calendar Web-based Google Calendar extension written in Python and Flask that automatically schedules to do items and learns user preferences (Inspired by Timeful).

Biofeedback Posture Chair
Custom CNC milled chair with arduino powered pressure sensors that detect posture and give users feedback through an iPhone app in Swift.

Neural Network Learning
A neural network written from scratch using Python's numpy library, using matrix multiplication and gradient descent backpropagation to identify handwritten numbers from the MNIST data set.

ACTIVITIES

Board Member- Catalyst (Olin Entrepreneurship Organization)

Fine Arts (2D)

Public Interest Technology University Network
-Leader of new member trainings and technical skillshares for student pro-bono consulting group for non-profits

Olin Ethics Task Force
-Served on task force to write guidelines for ethics in the Olin presidential search