MICAH REID

https://github.com/mhreid
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EDUCATION

Olin College of Engineering, Needham, MA— *B.S. in Engineering with Computing; Class of 2021*

Relevant coursework: Modeling and Simulation in Python, Software Design, Principles of Engineering, Linear Algebra/Vector Calculus (Linearity). Spring 2018 coursework: Data Science, User Oriented Collaborative Design, **Data Structures and Algorithms**

NuVu Studio, Cambridge,MA

JANUARY 2016 - JUNE 2017

NuVu is a full-time innovation school for middle and high school students. NuVu's pedagogy is based on the architectural Studio model and geared around multi-disciplinary, collaborative projects.

Harvard Extension School, Cambridge,MA

JUNE 2016 - JUNE 2017

Took courses in math, computer science, psychology, and writing to supplement high school curriculum.

EXPERIENCE

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

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.

Berkman Klein Center for Internet and Society at Harvard, 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, Cambridge, MA— *Research Assistant*

JANUARY 2018 - PRESENT

Assisted in psychology research, with main tasks including coding natural language in texts. **Co-author of paper to be published in the Journal of Personality**

SKILLS

Python, App Development (Swift/React Native), HTML/CSS/Flask, Arduino/C++, UI/UX Development (Sketch), CAD (Solidworks/Fusion 360), Processing, Java

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)

 -Intercollegiate event coordinator

-Plans club structure, budget allocation, and guest speakers

Fine Arts- Oil Painting and Charcoal