Morgan Walker

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"Do all the good you can. By all the means you can. In all the ways you can. In all the places you can…To all the people you can." –Wesley

Education

Northwestern University, Evanston, IL
McCormick School of Engineering
B.S. Computer Science
Segal Design Certificate

Anticipated Graduation Date: June 2018
Current GPA: 3.85/4.00

Work Experience

Software Engineer, Cambly (Y Combinator)   San Francisco, CA Summer 2017
Cambly is an English tutoring platform that connects students to native English speakers 24/7
- Developed a gamification strategy to encourage students to speak to more tutors and reflect on their learning
- Automated students' ability to pause their subscriptions by modifying the MongoDB collection
- Converted incoming videos to MP4 using AWS so students on a variety of devices can view tutor lesson videos
- Modularized a React component to streamline the login process and increase the likelihood students register

Data Scarcity Analyst, Northwestern University   Evanston, IL Spring 2016-Summer 2016
- Developed a program using Python, SQL, and Pandas to read the Demographic Health Survey data to determine disease incidence rates and demographic population numbers of rural Liberia
- Designed a costing tool using human centered design practices to determine the number of medicinal commodities that Last Mile Health, an NGO in Liberia, requires to deliver care to its remote areas

Usability Engineer Consultant, UserWise   San Jose, CA Summer 2015
- Designed and presented a training module on the impact of cognitive bias during usability studies. When module was presented at the HFES Medical Device Symposium it resulted in obtaining Johnson & Johnson as a client
- Co-wrote a Human Factors Engineering submission for a class II medical device for FDA approval
- Prepared, executed, and analyzed a usability study to evaluate post-knee replacement rehabilitation prototypes

Projects

Education Project   Evanston, IL Winter 2017-Present
- Researching, designing, and building an interactive text editor aimed to reduce the gender and minority gap in computer science by rewarding process over outcome and instilling a desire for challenging problems

Mobile Health Project   Evanston, IL Winter 2017
- Extracted features from the sensor data of 200 participants and ran machine learning algorithms to recognize depression and anxiety given user behaviors, states, and conditions from their cellphones

Human Trafficking Project   Bali, Indonesia Fall 2016
- Examined human trafficking in Bali through in depth research and speaking with a variety of locals and NGOs
- Created an art for social change piece for the Institute Seni Indonesia art exhibition to raise awareness

Relevant Courses

Algorithms, Operating Systems (Fall 2017), Artificial Intelligence, Machine Learning, Data Structures, Geospatial Visualization, Mobile Health, Databases, Computer Systems, Human Computer Interaction, Agile Research Studio

Leadership Experience

Recruitment Chair of Women's Club Ultimate Frisbee   Evanston, IL Spring 2016-Present
- Recruiting students to try Ultimate Frisbee and working with them to improve their confidence on the field

Computer Science Peer Mentor   Evanston, IL Winter 2016-Spring 2017
- Mentored students to solidify their understanding of artificial intelligence and programming in C++

Skills

Programming Languages: Python, Java, C, C++, React, Redux, MongoDB, JavaScript, SQL, x86 Assembly
Foreign Languages: French, fluent (Two years in France), Bahasa Indonesia, beginner (Studied abroad in Indonesia)