Kennedy Mesfun

Oakland, CA 94608 · (510) 914-7264 · kmesfun@berkeley.edu

website: **kmesfun.github.io**

EDUCATION

Laney College **August 2012 - May 2015**

- A.A in Computer Science

University of California, Berkeley **August 2015 - May 2017**

- B.A in Computer Science (Cognitive Science)

Relevant Coursework: Artificial Intelligence, Advanced Data Structure and Algorithms, UX/UI Design, Database Systems, Machine Learning, Computer Networks

EMPLOYMENT

Web Design && QA Tester, Intern **Codelearn.org** **May 2014 - January 2015**

- Assisted with the Android and Ruby tutorial from beginners to advance skills by building the front end of the main webpage using HTML/CSS.
- Monitored the phases of the software development process to ensure design quality by testing and prototyping the tutorials
- Lead a team of engineers to plan and develop future strategies for the company's growth with marketing strategies.

Lab Assistant **University of California, Berkeley** **August 2015 - December 2016**

- Courses: CS61A, CS61B
- Held Office hours to assist in projects completion and help with efficient coding on homework assignments.
- Taught lessons on broader ideas of computer science and helped students with easier approaches to solving problems.

Mentor **David E. Glover Education and Technology Center** **January 2017 - present**

- Tutored and motivated in beginner coding languages (e.g. Scratch, App Inventor, Python and Java) to teach project-based learning philosophies
- Helped youth to develop their professional communication and presentation skills to help them deliver a pitch for their apps and ideas to potential technology professionals.
- Helped youth develop critical leadership and relational skills to build effective professional and educational networks.
- Assisted in creating and accomplish meaningful computer technology projects while building self confidence and artistic expression.

TECHNICAL EXPERIENCE (Projects)

Face Recognition Drone (OpenCV, Audrino && Python)

- Lead a team of two where I worked on the programming aspect of the project by implementing OpenCV for face tracking.
- Developed an algorithm with Convoluted Neural Networks for face detection with the PiCam to recognize faces to avoid collisions with people.

Rudrata Path Reduction (Python)

- Solved an NP-hard problem by reduction were we maximized likelihood to achieve a better score.
- Created a solution by using Tarjan algorithm as a black box to find strongly connected components to assist with generating output file for an approximate solution.

StudyMuse (Node.js && DynamoDB)

- Used Amazon Alexa as a real time, dynamic interface to assist students in deploying recorded audio materials and other educational tools to help blind and visually impaired students in creating, navigating, and responding to conventionally text study materials.
- Designed a VUI with Alexa Lambda and created several prototype designs while iterating through the Software Development Life cycle to create a finished product.

Facebook stock chat-bot (Javascript/Node.js)

- Designed and created a retrieval-based Facebook messenger chat bot using Javascript
- Used a web scraper to add company symbols and names to a CSV from the Nasdaq website and allows users to type the name or symbol and retrieve company news and prices

Languages and Technologies

Programming languages: *Proficien*t: Python, Java

Experienced with: Ruby, C++, JavaScript, Matlab, C, R

Additional Technologies: Ubuntu, HTML/CSS, MySQL, Android, Apache Hadoop, Amazon EC2, Apache Spark, PHP

Other Skills: Amazon Lambda, React.js, OpenCV, Sketch, Optimizely, Linux