

Kennedy Mesfun

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check me out! ==> kmesfun.github.io

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 2015**

- Courses: CS61A
- 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.

EDUCATION

Oakland, CA **Laney College** **August 2012 - May 2015**

- A.A in Computer Science. GPA: 3.7

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

- B.A in Cognitive Science, Area of Study: Computational Modeling. GPA: 3.2
- Relevant Coursework: Artificial Intelligence, Advanced Data Structure and Algorithms, UX/UI Design, Database Systems, Machine Learning, Linear Algebra, Computer Networks

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.
- Assembled a QuadcopterX and used an Arduino-Multiwii as a flight controller to navigate the drone with an RC.

Rudrata Path Reduction (Python)

- Solved an NP-hard problem by reduction where 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.
- Competed against ~200 groups in the class and ranked top 25.

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.
- Addressed the difficulty for 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.

Languages and Technologies

Programming languages: *Proficient:* Python, Java, C

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

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

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