# Micah Harrison

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## EDUCATION

**University of California, Berkeley**
Bachelor of Arts (B.A) in Computer Science                                    Expected:  May 2020

**GPA: 3.3**
**Relevant Courses(*in progress):** *Efficient Algorithms and Intractable Problems, *Techniques of Data Science, Database Systems, Machine Learning Decal, Data Structures, Discrete Mathematics and Probability, Linear Algebra

## PROJECTS

**Tensorflow Object Detection** — *Machine Learning in Python*                July 2018
- Created a machine learning project using tensorflow to showcase object detection
- Adapted default tensorflow model to track customized object and work with live and recorded video feeds.

**Unity** —*C#*                                                               June 2018
- Developed a fully functional 2D beat-em-up style game using Unity as the game engine and C#.
- Utilized singleton design patterns for game controls to implemented upgrade mechanics and store system.

**Gitlet** — *Data Structures in Java*                                        November 2017

- Designed and implemented a version-control system that supports a subset of features after git.
- Features included initializing repo, pushing and pulling from local and remote repositories, and merging.
- Instituted a Content-Addressable file System to keep track of tracked/untracked files, commits, tags, ..etc.

**Database System** — *Data Structures in Java/ SQL*                          September 2017
- Implemented  a miniature relational database management system that stores tables of data.
- Built a query language interpreter in the system to understand a variation of MySQL

**Yelp Maps** — *Data Manipulation/ Machine Learning in Python*              September 2017
- Created a visualization of restaurant ratings using  machine learning and the Yelp academic database.
- Implement a *supervised* learning algorithm that generalize ratings of multiple restaurants

## WORK EXPERIENCE

**Clark Kerr Housing Facility** — *Housing Assistant*                         August 2016 - Present
- Organize and sort packages in the mailroom, address student concerns at the front desk, and assist students with printing in the student center.

## SKILLS

**Technical:** Java, Python, SQL, C, C#, Unity, Git, HTML, CSS, Tensorflow, Pandas
**Non-technical:** Time and resource management, Outreach, Public speaking

## LEADERSHIP EXPERIENCE

**Codeology** — *Project Leader*                                             August 2018 - Present
- Lead a four week project development process for members to learn and expand their interests into varying fields of computer science such as machine learning.
- Provide a development process for all levels of skill while also catering towards newcomers with additional resources and one on one assistance

**Bright Prospect** — *Outreach/Member*                                      August 2014 - Present
- Advocated for the program at various high schools to influence prospective college students to join the program.
- Assist current high school members by providing information about the college application process and help them to prepare for the college transition.