Micah Harrison

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EDUCATION

University of California, Berkeley
Bachelor of Arts in Computer Science
August 2016 - May 2020
GPA: 3.33
Relevant Courses: Data Structures and Algorithms, Discrete Mathematics and Probability, Linear Algebra and Differential Equations, Machine Structures, Intro to Database Systems

PROJECTS

Personal Website — *Web Development*
June 2016 - Present
- Built my personal website from using HTML, CSS, and some bits of Javascript and jquery.

Cal Hacks 4.0— *Front End Team Member*
October 2017
- Coordinated with a team to create a web application that generates music playlist based on a user's mood
- Used HTML, CSS, and Javascript to create a front-end GUI for the application

Gitlet — *Data Structures in Java*
November 2017
- Constructed and implemented a version-control system mimicking features after git
- Features included initializing repo, pushing and pulling from local and remote repositories, and merging
- Used Blob objects to record contents of files by preserving a sha1 encryption of the contents of the file and represented commits as special objects with hashmaps of the current Blobs(files) in the commit.

Database System — *Data Structures in Java/ SQL*
September 2017
- Wrote a miniature relational database management system that stores tables of data
- Stored table names in the db using a hashmap while the contents of the tables were written and read from special .db files much like reading/writing from CSV files
- System included a query language interpreter modeled after SQL

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 attempts to generalize ratings of a restaurant from examples of all the restaurants that the user has already rated.

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, HTML, CSS, Git, Microsoft Office
Non-technical: Time and resource management, Marketing, Outreach, Public speaking

COMMUNITY INVOLVEMENT

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 college transition.