

# MANGESH DARKE

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## EDUCATION

### University of California, Berkeley

Bachelor's of Arts in Computer Science

August 2018 - December 2020 (expected)

GPA: 3.25 / 4.00

**Relevant Coursework:** Data Structures, Computer Architecture, Algorithms, Foundations of Data Science, Introduction to Databases, Introduction to Machine Learning (currently), Internet Architecture and Protocols (currently)

### Chabot College

Courses taken in Computer Science

August 2016 - May 2018

GPA: 4.00 / 4.00

## PROJECTS

#### Ants (Python)

- Implemented the object-oriented logic for a web-based game modeled after Plants VS Zombies

#### Bear Maps (Java)

- Built the web server of a map routing application centered around Berkeley, CA using an APIRouteHandler for rastering map images
- Implemented the A\* search algorithm for mapping routes on the application
- Implemented query autocomplete responses using Princeton's TST API

#### CalNow (Swift)

- Built a multi-screen calendar application in Swift for UC Berkeley students to manage academic, entertainment, and sports events on campus

#### Hangman (Swift)

- Created a single screen application to play the game of Hangman
- Implemented Merriam-Webster Dictionary API to increase difficulty and randomness of words used

#### Personal Website (HTML, CSS, Javascript)

- Built a multi-page website to have a more intuitive way to demonstrate my projects, experiences, and passions
- Developed a background image slider using the jQuery and Bootstrap Javascript libraries

#### Database Management System (Java)

- Implemented the Block Nested-Loop join and Sort-Merge join algorithms used to join relations in relational databases
- Implemented cost estimation for a relational query optimizer

## EXPERIENCE

#### Chabot College Office of Institutional Research

Student Research Assistant

Hayward, CA

March 2017 - June 2018

- Created campus-wide surveys for data collection using Teleform Designer
- Compiled and analyzed the data in IBM SPSS Statistics
- Provided succinct and detailed analyses to assist programs in their research projects

#### GiveTeens20

Web Development Intern

Fremont, CA

August 2015 - August 2016

- Created wireframes to determine the most attractive designs to our target demographics
- Built a few different webpages using HTML and CSS to gauge interest from the organization
- Adjusted our design as we received feedback and continued to build additional webpages

## SKILLS AND INTERESTS

**Skills:** Java, Python, C++, C, Swift, HTML, CSS, Javascript, SQL, MIPS, Git, Docker, Firebase

**Interests:** Traveling, Sports, Books by George R. R. Martin