

MANGESH DARKE

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EDUCATION

University of California, Berkeley

B.A. in Computer Science

August 2018 - December 2020

Overall GPA: 3.25

Chabot College

Courses taken in Computer Science

August 2016 - June 2018

Overall GPA: 4.00

TECHNICAL STRENGTHS

Computer Languages	Java, Python, C, C++, Swift, HTML, CSS, Javascript, Scheme, MIPS, RISC-V
Databases	MySQL, PostgreSQL
Tools	Vim, Git, Docker, Firebase

RELEVANT COURSES

*Data Structures and Algorithms, Efficient Algorithms and Intractable Problems, Computer Architecture, Foundations of Data Science, Databases, Machine Learning (**currently**), Internet Architecture and Protocols (**currently**)*

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 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

March 2017 - June 2018

Hayward, CA

- 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

August 2015 - August 2016

Fremont, CA

- 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