

# Charles D. Olivar

CharlesDavidOlivar.com | CDOlivar@berkeley.edu | (408) 621 3663 | 2312 Fulton St. Berkeley, CA 94704

## EDUCATION

**University of California, Berkeley**  
**BA Computer Science**

**GPA:** 3.77  
(expected): May 2019

**Coursework:** Data Structures (**61b**), Efficient Algorithms(**170**), Machine Architecture(**61c**), Artificial Intelligence (**188**), User Experience (**190**), Structure and Interpretation of Computer Programs (**61a**), Discrete Math and Probability Theory (**70**)

## SKILLS

**Web:** HTML, CSS, Javascript, JQuery, React, Redux, Hapi, Node  
**Languages:** Python, Java, C, SQL

**Software:** Illustrator, Sketch, Photoshop, Git, Unix command line, Windows, OS X, Ubuntu (Linux), Word and PowerPoint.

## PROJECTS

**Personal Site:** Personal website for portfolio. Hosted on Github pages. Built with HTML, CSS, Javascript, Bootstrap, and JQuery. Graphics and designs made with Illustrator

**Editor:** Bare-bones text editor. Supports arrow-key navigation, word wrap, undo/redo, and saving/opening files. Built with Java and the JavaFX Library with the IntelliJ IDE.

**Bear Maps:** Google-Maps-Inspired routing application. Finds and traces the fastest route between two points using the A\* algorithm. Supports zooming in and out, dragging, and clicking for location selection. Utilized OpenStreetMap for coordinate mapping, built with Java.

**Scheme Interpreter:** An interpreter for a subset of the Scheme language, built with Python.

**Multi-Agent Pacman:** Designed A.I. for Pacman search agents. Implemented Minimax, Expectimax, and Alpha-Beta pruning with Python.

## EXPERIENCE

**Front-End Engineering Intern**  
WalmartLabs

Berkeley, CA  
June 2017 - August 2017

- Designed and implemented an internal onboarding portal that allows Walmart engineers to register 3rd parties, authorizing those parties to use Walmart's APIs.
- Front end components were developed with React, React Router, Redux, and Redux-Form client-side form validation.
- Back End was built on Node and Hapi, with Joi for server-side form validation.

**IT Administrative Assistant**

UC Berkeley Graduate Assembly

Berkeley, CA  
Dec 2015 – Dec 2016

- Maintained and updated all Graduate Assembly websites and events calendar using **WordPress**
- Graphic design for various GA office and event needs, created with **Photoshop** and **Illustrator**
- Maintained GA departmental accounts, mailing lists, and groups
- Resolved all Xerox, network, server and network account issues and requests

**Facebook Techstart Mentor**

Facebook TechStart

San Lorenzo, CA  
Sep 2016 – Dec 2016

- Assisted a high school teacher teach AP computer science concepts to eighteen high school students using **Java** and **BlueJ**
- Gave short lectures to help students learn and understand CollegeBoard's 'Magpie Chatbot Lab' to understand object oriented programming concepts

**CS Lab Assistant**

UC Berkeley

Berkeley, CA  
Jan 2016 – Present

- Assist students in lab for CS61A (Intro to CS) and CS 61B (Data Structures) by:
  - Helping college students understand and think through labs in **Python** and **Java**