

# ANNIE TANG

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## EDUCATION

### Class of 2020

Bachelor of Arts  
Technical GPA: 3.67

### UC BERKELEY | Computer Science, Cognitive Science, and Data Science

#### RELEVANT COURSE WORK:

- \* CS61B: Data Structures & Algorithms
- \* CS61C: Machine Structures
- \* CS170: Efficient Algorithms (Sp18)
- \* Data100: Techniques of Data Science
- \* Stat140: Data Science & Probability (Sp18)
- \* CS186: Intro to Database Systems (Sp18)

#### TECHNOLOGIES:

- \* Python, Java, C, Swift, Numpy, SQL, HTML/CSS, Assembly (RISC-V), Pandas

## EXPERIENCE

### UC BERKELEY

EECS DEPT.  
Fall 2017 – present

#### CS61A TEACHING ASSISTANT

- \* Teaching 35+ students in problem-based, hands-on 1.5 hour discussions & labs.
- \* Guest lectured to 400 students about Python fundamentals (REPL) and SQL queries.
- \* Helping students gain a deep understanding for Python & an exposure to SQL/Scheme.

### UC BERKELEY

STUDENT GOV'T  
Fall 2017 – present

#### DIRECTOR OF ENGINEERING | office of adnan hemani

- \* Leading a team of 3 engineering interns as the product manager to consolidate campus resources on an accessible web platform for the student body.
- \* Designing the website interface and managing content requirements.

### INFINERA

INTERNSHIP  
Summer 2016

#### SUMMER INTERNSHIP

- \* Programmed two Excel Macros to automate data extraction and formatting processes.
- \* Transformed a two-day procedure into a 30-minutes task for the Finance Department.
- \* Communicated between Engineering and Finance dept. as part of daily sprints.

## PROJECTS

### FULL STACK

Xcode, Swift 3.0  
Fall 2017

#### SOCIAL EVENTS APP | [tinyurl.com/mdb-socials](https://tinyurl.com/mdb-socials)

- \* Integrated Google's Firebase API for Firebase Authentication, Storage, and Database
- \* Built in user/event creation, image storage, and large data retrieval functionalities.
- \* Programmatically set the UI design in Xcode with Swift 3.0

### FRONTEND

HTML/CSS, JS  
Summer 2017

#### PERSONAL WEBSITE | [tinyurl.com/anniewtang-website](https://tinyurl.com/anniewtang-website)

- \* Self-taught HTML/CSS and Javascript to develop my current personal website.
- \* Independently designed and coded current website layout from scratch, without the use of frameworks (and, with much help from Stack Overflow).

### UI/UX DESIGN

Adobe XD, PS  
Spring 2017

#### BEARWALKS | [tinyurl.com/bearwalks](https://tinyurl.com/bearwalks)

- \* Designed the UI for a high-fidelity mobile app prototype after conducting extensive UX research (market analysis, scenario mapping, user interviews, etc.).
- \* Awarded "Best Prototype" by Berkeley Innovation & presented work at a Cal showcase.

### BACKEND

Java, Junit/JTest  
Spring 2017

#### RELATIONAL DATABASE MANAGEMENT SYSTEM | (private repo)

- \* Individually designed the API & backend database structure to create a relational database management system.
- \* Implemented backend for SQL-like user query data retrieval, such as: merging tables, filtering rows, computing various data types, and loading/printing/creating data tables.

### BACKEND

Java, Junit/JTest  
Spring 2017

#### BERKELEY MAPS | (private repo)

- \* Pulled data from OpenStreetMap API to create interactive map/locationing web server
- \* Implemented shortest path algorithms (A\*) to allow for efficient destination routing
- \* Supported location-search auto-completion with Trie tree structures
- \* Handled user zoom capabilities/image and map rasterization with quad-tree structures