

# TREY LOWERISON

## EDUCATION

UC Berkeley    *Class of 2019*    Majors: Physics • Computer Science    GPA: 3.3

## EXPERIENCE

### UBER

*Innovation Engineer Intern*

May 2018 - Aug 2018

Evaluation available

- Created and implemented an algorithm to predict wait times for drivers in physically separated queues connected through a center of operators
- Algorithm deployed on a global scale in a real-time back end service; driver ETAs were the most requested feature in feedback prior to implementation

### Breakout Mentors

*Computer Science Mentor*

Dec 2017 - May 2018

- Designed and lead projects which utilize important Computer Science concepts such as Object Oriented Programming and data structures; popular projects among students included game design and encryption
- Met with young students weekly to guide through projects and ideas

### go\_code

*Founder, Lead Developer*

May 2017 - Aug 2017

- Directed programmers including Shutterfly Co-Founder Dan Baum
- Developed a project-based curriculum for 60 students which included basic Python, game logic, artificial intelligence and encryption
- Designed website in 2 days, viewed by hundreds for maximal outreach

### Projects

Aug 2017 - Present

- Developed web app for song clustering using Spotify's public API
- Designed and constructed analog theremin capable of producing frequencies in the bandwidth of a musical fifth (with shiftable range)
- Developed website for local fraternity to increase online presence
- Current project is a static analysis of tree structure and self-similarity

## COURSEWORK

### Previous Coursework

Machine Learning (A)    Quantum Computing (A-)  
Data Structures (A-)    Feedback Control Systems (B+)

### Current Coursework

Stochastic Processes    Quantum Mechanics  
Efficient Algorithms    Information Systems

## PROFESSIONAL SKILLS

JAVA	6 years	JAVASCRIPT	4 years	C	4 months
PYTHON	4 years	ANGULAR	1 year	LABVIEW	4 months
MATLAB	1 year	NODE.JS	1 year	ASSEMBLY (RISC-V)	4 months
HTML	3 years	D3.JS	3 months	SQL	3 months