

TREY LOWERISON

treylowerison.com • github.com/tlowerison • linkedin.com/in/tlowerison

EDUCATION

UC Berkeley

Class of 2019

Double Major:

Computer Science

Physics

Coursework

Noise Injection + Machine Learning Project

Discrete Mathematics & Prob. Theory

Quantum Mechanics

Computer Architecture

Data Structures

Organizations

Cal Orientation Leader
of 35 Students

ASUC Digital Services

ΣAM: Brotherhood Chair,

Candidate Educator

EXPERIENCE

FOUNDER

LEAD DEVELOPER

code_it / "Go Code"

May 2017 - August 2017

- Directed student 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 (5 weeks)
- Designed website in 2 days, viewed by hundreds for maximal outreach

FREELANCE DEVELOPER

Self Employed

Oct. 2014 - Present

- Produced an Alpha-Beta Pruning AI for a two player game, improving its average case performance over a normal Minimax alg. by a *factor of 14*
- Designed website for a boutique hotel to increase usability and bookings
- Created website for local fraternity to increase public presence and member recruitment; *incoming class size up by ~200%* from last year

WEB DESIGNER

ASUC Office of the CTO

Jan. 2017 - Present

- Updating student senator accountability web app to increase public usage; will be able to access senators' meeting attendances and notes with ease
- Drafting case management system with tiered user access for Student Advocate's Office; drastic improvement over current paper system

LAB ASSISTANT

Lawrence Berkeley

National Lab

Sept. 2016 - Feb. 2017

- Collected and analyzed data to identify and reduce outgassing errors in ultra-sensitive photomultiplier/vacuum systems
- Gained working knowledge of industry standard vacuum flanges, pumps and tubes as well as oscilloscope use and circuitry design

INTERESTS

MATHEMATICS

PROGRAMMING

GUITAR

HIKING

PROFESSIONAL SKILLS

JAVA

6 years

PYTHON

3 years

NODE.JS

6 months

MONGODB

6 months

HTML5

2 years

JAVASCRIPT

2 years

ANGULAR

7 months

MATLAB

4 months