

# TREY L. LOWERISON

## EXPERIENCE

DEVELOPER  
LEAD INSTRUCTOR  
code\_it / "Go Code"  
May 2017 - August 2017

- Instructed students including Shutterfly Co-Founder Dan Baum (*4 weeks*)
- 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

## EDUCATION

UC Berkeley  
Class of 2019  
GPA: 3.3  
Computer Science  
Physics

Coursework  
Discrete Mathematics & Prob. Theory  
Computer Architecture  
Quantum Mechanics  
Data Structures

Organizations  
Cal Orientation Leader  
of 35 Students  
ASUC Digital Service  
Sigma Alpha Mu

## INTERESTS

MATHEMATICS  
PROGRAMMING  
GUITAR  
HIKING

## PROFESSIONAL SKILLS

JAVA	6 years	HTML5	2 years
PYTHON	3 years	JAVASCRIPT	2 years
MATLAB	6 months	CSS	2 years
MONGODB	6 months	ANGULAR	6 months