

# TREY L. LOWERISON

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## EXPERIENCE

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

- 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
- Taught coursework to students and a leader in high-speed internet (4 weeks)

FREELANCE DEVELOPER  
Self Employed  
Oct. 2014 - Present

- Created website for local fraternity to increase public presence and member recruitment; *incoming class size up by ~200%* from last year
- Designed website for a boutique hotel to increase usability and bookings
- 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*

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  
Computer Architecture  
Basic Semiconductor Laboratory  
Discrete Mathematics & Prob. Theory  
Data Structures

Organizations  
Sigma Alpha Mu  
ASUC Digital Service  
Golden Bear Orientation-  
Leader (35 Students)

## INTERESTS

MATHEMATICS  
PROGRAMMING  
GUITAR  
HIKING

## PROFESSIONAL SKILLS

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