

ALEX TRUONG

(415)-812-9170 | altruong@berkeley.edu | U.S. Citizen | GitHub: [AlexTruongX](#) | [in/alextruongx](#)

SUMMARY

Socially responsible software engineer with distinctive ability to build, test, and deploy technology. Seeking an evolving role that leverages my analytical creativity, adaptability, and facilitation skill set in creating solutions to everyday problems.

EDUCATION

University of California, Berkeley Expected May 2023
Bachelor of Arts, Intended Computer Science and Data Science Berkeley, CA
Relevant Course Concepts: Object-Oriented Programming, Functional Programming, Data Abstraction, Regression Analysis, ML Classification, Calculus, Differential Equations
Honors: First author of published research paper, "Maximizing Biodiesel Production and Combustion to Discover Optimal Pathways using Specific Hydrocarbon, Varying [KOH], and Alcohol-to-Oil Ratios"

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, HTML/CSS
Technologies: NumPy, Jupyter, miniVAN, Git, Adobe Photoshop & Premiere Pro

PROJECTS

- **Tic-tac-toe**, 2-player strategy game utilizing functional programming and dictionary data structure in Python
- **CATS**, a typing test software which measures typing speed and has an auto corrective feature in Python
- **Movie Classifier**, built & tested k-NN algorithm to guess movie genre via word frequency in screenplay in Python
- **Scheme Interpreter**, a programming interpreter for a subset of the Scheme language in Python
- **Cardiovascular Disease**, a large-scale case study into the cause and effect of deadly disease in Python
- **Ants**, a turn-based tower defense game combining functional and object-oriented programming in Python
- **World Progress**, visualized and manipulated large data sets of global population vs. poverty over time in Python
- **Hog**, a dice game combining control statements and higher-order functions in Python
- **Personal Website**, with utilities such as to-do-list, clickable calculator, and music player in HTML and JavaScript

LEADERSHIP EXPERIENCE

Asian American Association January 2020 - May 2020
Internal Committee Member Berkeley, CA

- Automated notification and announcement system of social events, reducing time spent on outreach by 4800%
- Increased organic click-through rates of sign-ups through Facebook & Google Forms by 75%
- Amplified member satisfaction by 200% through creative use of event space, layout, and check-in system

UCB Andrew Yang For President September 2019 - Present
Phonebanking Captain Berkeley, CA

- Led group of 350 people in raising over \$2000 for club expenditures through word-of-mouth
- Expanded club operations on a city-wide scale through effective social media marketing
- Trained and led a team of 10 people to effectively persuade 2000+ citizens in early voting states
- Created specialized phone call scripts for certain households based on voting history and political ideology

Yang 2020 February 2020 - March 2020
Iowa Precinct Captain Newton, IA

- Collected data using miniVAN and led supporters to other candidates if not viable during the Democratic Caucus
- Won 1 precinct delegate through public speaking and persuasion of 13 people to caucus for Andrew
- Streamlined door-to-door knocking, knocked on 200+ doors, spoke to 100 Iowans with diverse ideologies

Curriculum Development August 2018 - June 2019
Lead Curriculum Developer San Francisco, CA

- Developed and launched new curriculum for AP Statistics for 60+ students under guidance of a math teacher
- Presented AP Statistics curriculum at a global conference with sponsorship from Beeminder, a software company
- Selected as only student within 4000+ students to collaborate with teachers on development of core courses
- Improved student homework completion rate to 95% and class passing rate to 100%