

EDUCATION:

University of California: Santa Barbara

Aug 2019 - Jun 2022

- Bachelor of Science: Computer Science | Minor: Statistics
 - Major GPA: 4.00 | GPA: 4.00 | Dean's Honors, All Quarters Offered
 - Organizations: UCSB Data Science, UCSB Robotics, UCSB IEEE
 - Relevant Course Topics: Data Structures & Algorithms, Object-Oriented Programming, File Handling, Pointers and Memory, Discrete Mathematics, Multivariable Calculus, Linear Algebra, Differential Equations
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RELEVANT EXPERIENCE:

Game Design Lead | KidsWriteCode, Fletcher Middle School

Jan 2017 - May 2019

- Developed computer games (e.g., Ultimate Tic-Tac-Toe, 2048) using Python turtle graphics to teach 50+ children introductory Python programming in line with their current interests.
- Designed code to reduce the amount of tedious graphical tasks through the creation of code to be imported as a module, allowing students to better focus on learning programming fundamentals.

Volunteer Software Developer | RoboDojo, Palo Alto Library

Apr 2018 - Mar 2019

- Created 3 programs for the NAO robot including a personality quiz and a *Choose Your Own Adventure* variant to demo at workshops and spark children's technological innovation.
 - Lead over 70+ community members in developing robotics applications throughout 2 half-day workshops, which helped the library win the Urban Libraries 2019 Top Innovator Award.
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SELECTED PROJECTS:

Rubik's Cube Solver

Jan 2020 - present

- Utilized Google Cloud's Vision API to extract dominant colors of image partitions (of a Rubik's Cube.)
- Deployed K-Means Clustering algorithm to Rubik's Cube face colors with upwards of a 95% accuracy rate.

Stock Value Calculator

Nov 2019 - present

- Developed a Javascript web scraper using Selenium for Python to gather and clean financial statistics.
- Implemented a financial calculator using Pandas to derive a stock's intrinsic value using company finances.

alexmeicooking.com

Jun 2017 - present

- Engineered a website using HTML and CSS to showcase over 100 personal cooking recipes to promote healthier food choices and home cooking, gaining visitors from over 40 countries.
 - Implemented site to support both desktop and mobile users, especially those who refer to the digital recipes in the kitchen through eye-catching design and deliberate layout.
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SKILLS:

Programming Languages: Python, C++, HTML, CSS, Javascript, Java, R

Technologies: Git, Github, Anaconda, Jupyter, Unix, Vim, Selenium, Pandas, Bootstrap, jQuery, Django

Additional Course Topics: Combinatorics, Statistical Inference, Marginal Analysis, Economic Systems

Languages: English, Cantonese