Alex Mei

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EDUCATION:

University of California: Santa Barbara Aug 2019 - Dec 2022

- Bachelor of Science: Computer Science | Minor: Statistical Sciences
- Major GPA: 4.00 | GPA: 4.00
- Relevant Course Topics: Linked Lists, Dictionaries, Memory Allocation, File I/O, String Formatting, Linear Algebra, Differential Equations, Multivariable Calculus
- Proposed Course Topics (2020): SQL, Database Design and Management, Unit Testing, Trees, Statistical Distributions, Automata, Formal Languages

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.

SELECTED PROJECTS:

Stock Value Calculator Nov 2019 - present

- Developed Javascript web scraper using Selenium for Python to gather and clean financial statistics.
- Implemented a financial calculator using Pandas to derive the intrinsic value of a stock by using its key financial growth rates.

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.

SKILLS:

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

Technologies: Git, GitHub, Jupyter, Unix, Vim, Selenium, Pandas, Numpy, GGPlot2

Additional Course Topics: Classes, Objects, Inheritance, Polymorphism, Sorting, Searching, Efficiency, Binary Trees, Combinatorics, Statistical Inference, Marginal Analysis, Economic Systems

Languages: English, Cantonese