Alaysha Zarate
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EDUCATION

Vaughn Next Century Learning Center | San Fernando, CA ***August 2017 - June 2021***
Relevant Coursework: Exploring Computer Science, Calculus I *Cumulative weighted GPA: 4.38*
Class Rank: 5/161

Los Angeles Mission College (Dual Enrollment)| San Fernando, CA ***Summer 2018 - Summer 2022***
Relevant Coursework: Introduction to Computers and Their Uses, Python Programming.

University of California, Berkeley | Berkeley, CA ***Expected Graduation May 2025***
Pursuing a B.A. - Computer Science, Data Science (Emphasis: Inequalities in Society) *Cumulative GPA: 3.41*
Relevant Coursework: Structure and Interpretation of Computer Programs, Data Structures, Foundations of Data Science, Linear Algebra, Differential Equations, Calculus II, Designing Information Devices and Systems I

SKILLS & TECHNICAL TOOLS

Languages: Java, Python, HTML/CSS, Scheme
Technologies: Git, Regex, Jupyter Notebook, Matplotlib, Pandas, BNF

WORK EXPERIENCE

Experience 1 | Cal Dining ***October 2021 - Present***
Crew Lead *March 2022 - Present*

- Lead student food service workers responsibly and maintain order in the facility
- Ability to pick up new skills quickly
- Additional administrative work/effective communication skills; communication with supervisors and managers via emails, spreadsheets, etc.

Food Service Worker *October 2021 - March 2022*

- Provide general assistance to professional food service personnel; ability to communicate effectively with a diverse workforce; cleaning and assembling kitchen production equipment; effective communication skills.
- Adjust production to meet customer demand; evaluating the overall quality of product or ingredients used for production

PROJECTS

Project 1 | *Ants vs. Some-bees*

- Created a tower defense game called Ants Vs. Some-bees inspired by the game Plants Vs. Zombies
- Emphasized on the use of an object-oriented programming paradigm using Python.
- Involves understanding, extending, and testing a large program.

Project 2 |*Copaganda Social Justice Project*

- Exploratory data analysis project on copaganda, the portrayal of law enforcement in a celebratory fashion to make them beyond public scrutiny and forward the law enforcement communities political ideals
- Investigate the effects copaganda has had on public opinion of law enforcement during the rise of law and order politics in America that caused mass incarceration using various technologies such as NumPy and Matplotlib
- Results were inconclusive due to the lack of data relevant to this topic; solution was to create a collaborative open source crowdsourcing technology that would contribute to data collection of shows and films believed to be copaganda.

Project 3 | *Scheme Interpreter*

- Developed an interpreter for a subset of the Scheme language with Python
- Overcame the issues that arose in the design of a programming language; any quirks of languages are byproducts of implementation decisions in interpreters and compilers.

Project 4 | *Gun Violence Research (Ongoing, Personal)*

- Conducting exploratory data analysis on gun violence specifically in the United States using various technologies such as Pandas and Matplotlib
- Research of gun laws in their respective time periods and locations will be crucial to uncovering the enablers of these shootings.
- Ongoing but the end goal is to create a website using HTML/CSS with my findings as well as resources.