Christian Alameda
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PROFESSIONAL SUMMARY

Highly motivated and results-driven computer science student with a passion for software development and data analysis. Skilled in Python, R, SQL, and other programming languages, with experience in creating functional websites, designing and implementing software projects, and conducting research in a professional setting. Adept at working collaboratively with cross-functional teams, and committed to delivering high-quality work on time and within budget. Seeking a challenging internship or entry-level position to further develop technical and professional skills.

EDUCATION

College: California State University, Stanislaus, Turlock, CA

- **Degree:** Bachelor of Science in Computer Science
- **Expected Graduation:** December 2024
- **Relevant Courses:** Assembly Language and Computer Architecture, Computer Organization, Data Structures and Algorithms, Probability and Statistics, Programming Languages, Theory of Algorithms, Software Engineering, Operating Systems, and Human Centered Design

LANGUAGES AND TECHNOLOGY

- **Languages:** Python, R, SQL, Javascript, C++, HTML
- **Technologies:** Visual Studio Code, Replit, Eclipse IDE, Excel, CSV, Windows, Linux

EXPERIENCE

ASPIRE: Turlock, CA
Research Intern; February 2023 - Present

- Analyzing patterns found in 10 TBs of data to interpret the relationships of Phenotypes and Genotypes. This will expedite the research into locating the correlations to diseases coded for on the genes.
- As the key developer on the project, I successfully designed and implemented a comprehensive front and back-end system that enabled seamless communication between both sides. This involved orchestrating the assignment of worker nodes to perform complex algorithmic analysis, ultimately resulting in an efficient and effective solution for our team.
- Developed using a user interface created with R and Shiny, MongoDB for the database, Spark to go from the UI to the backend, and Linux as the command line.

SOFTWARE DEVELOPER PROJECTS

Menu Creation **Languages**: Python, Excel, Linux

- Developed an innovative menu creation application that empowers restaurants to easily customize their menus by adding, deleting, editing, or searching for items.
- The application also features a flexible data structure selection component, allowing users to choose from four options while providing a real-time comparison of each option's speed.
- Collaborated with a cross-functional team to ensure optimal readability and effective troubleshooting by commenting on each portion of the code and actively communicating potential issues.

Choice Selector **Languages:** Python, Excel

- Developed a program to mimic how Yelp works by selecting an item and utilizing the memory in the code to select the same item in the future. Includes 4 CSV files all designated for a specific purpose as they are read, written, and edited.
- Made use of libraries such as os to allow users to choose a file and run the program, playsound for using music, PIL(Image Library) for a slideshow that the program creates, time for small pauses, and random for randomly selecting.

Resume Website **Languages**: HTML, CSS

- Created a sophisticated program that replicates the functionality of Yelp, enabling users to select items and rely on the code's memory to recommend similar options in the future.
- The program leverages four distinct CSV files, each specifically designated for reading, writing, and editing purposes.
- Incorporated powerful libraries such as os to enable file selection and execution, playsound for background music, PIL (Image Library) for creating slideshows, time for optimized pacing, and random for generating randomized selections.

TicTacToe **Languages**: Python

- Developed a captivating Tic-Tac-Toe game utilizing nested lists to enable a two-player experience with an advanced calculation feature that determines if the board has a win, draw, or loss for either player.
- The program offers a seamless user experience by allowing users to initiate a new match or exit the game once completed. The program's architecture ensures optimal performance and user satisfaction.

CLUBS AND AWARDS

- **CS4me Drone Hackathon**: Placed 1st in the advanced group
- **National Society of Leadership and Success:** member for demonstrated Leadership and Academic Performance
- **Dean's List:** CSUS in Fall 2022, MJC in 2020-2022
- **Clubs:** Computer Science Club