Alfredo Flores

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Education

San Diego State University, San Diego, CA   **Expected Graduation:** May 2025
Bachelor of Science, Major in Computer Science, Minor in Mathematics   *GPA: 3.4*

Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Computer Architecture, Intro to Software Systems, Linear Algebra, Database Theory Implementation, Intro to Artificial Intelligence, Computer Organization, Intermediate Computer Programming, Intro to Computer Programming

Skills

- C++ | Python | Java | JavaScript | HTML | CSS | MIPS | React | Flutter | Dart | SQL
- VS Code | Eclipse | CLion | MARS | Google Colab | Microsoft Office | English, Spanish - Both professional proficiency

Projects

- **SwipeApply:** Led the design and development of an Android app at the 2-Day Open Source Hackfest hosted by MLH. Our team created an app allowing users to effortlessly swipe through job listings tailored to their interests, sourced from the Google Cloud Job Search API. We also integrated a Firebase database to facilitate user registration and login, granting users access to the app's features. (Dart, Flutter, Firebase, Google Cloud API)
- **Battery Analysis Algorithm:** Developed and optimized a Python program to efficiently read CSV files, extracting crucial Time, Current, and Voltage data to compute the power left in our vehicle's accumulator at specific intervals. This program proved instrumental in helping our team understand the efficiency of our vehicle's battery system. (Python)
- **Portfolio Website:** Designed and deployed a personal portfolio website as an extension of my resume, showcasing my work and experience in a visually engaging manner (HTML, CSS). Link to Website
- **Weather Web Application:** Designed and developed an application that integrates a Weather API to retrieve and display real-time weather information, including Temperature, Humidity, and Wind Speed for the corresponding location searched by the user. (React, JavaScript, HTML, CSS, Current Weather Data API)
- **Image Thresholding, Cryptography, and Transformation Program:** Implemented image thresholding to convert grayscale images into binary images, created an algorithm to apply affine transformations to an input image, and implemented a form of image encryption by rearranging the order of the pixels in the output buffer. (MIPS)

Professional Organizations

Aztec Electric Racing   Aug. 2023 - Present
Data Acquisition Team Member

- Working with Python, Web Development and design, wiring, MOTEC GUI, Communication protocols, and APIs.
- Collaborating with all sub-teams to monitor data pulled from our vehicle tests to enhance various aspects of the vehicle.

eLeet Coders   Aug. 2023 - Present
Club Team Member

- Mock Interviews, Coding Interview Prep, LeetCode Problems, LinkedIn Optimization

Professional Experience

Chick-fil-A, La Mesa, CA   Sep. 2021 - Present
Front of House Team Member

- Maintaining high standards of customer service during high-volume, fast-paced operations.
- Communicating clearly and positively with coworkers and management to resolve complaints promptly.
- Balancing a 20+ hour work schedule during the Fall semester while managing the responsibilities of a full-time student.

Flores Home Remodeling Inc., San Diego, CA   May 2023 - Aug. 2023
Class B General Contractor Apprentice

- Collaborated as part of a team to review and refine project blueprints to begin the implementation phase of each project.
- Communicated directly with customers and city inspectors to maximize customer satisfaction while ensuring full compliance with city safety regulations.
- Adapted solutions to effectively address any complications, while ensuring alignment with the needs of our customers and upholding city regulations.