

# Sergio Martinez

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## EDUCATION

### **California State University, Long Beach**

Bachelors of Science, Computer Science, GPA: 3.5

Spring 2026

### **Monterey Peninsula College**

Associate's Degree in Computer Science

August 2018 - June 2023

## SKILLS

**Technical Skills:** C/C++ | Python | Java | HTML4 | JavaScript | CSS | Visual Studio Code | Arduino

**Courses:** Data Structures | Algorithms | Theory of Computation | Object-Oriented Programming | Operating Systems | Principles of Programming Languages | Computer Architecture and Organization | Intro to Software Engineering | System Programming | Intro to Security Principles | Discrete Mathematics | Probability and Statistics with Applications to Computing

## EXPERIENCE

### **Co-Op: Beta Testing - Monterey Peninsula College**

July - August 2022

- Developed C code to interface with a microcontroller, facilitating hardware operations and enabling seamless functionality
- Reviewed labs, identified bugs in the code, and logged any errors or challenges encountered
- Provided feedback to the supervisor and resolved issues with their help
- Collaborated in conjunction with other team members to create a poster detailing our experiences and results which were presented at a symposium

### **Computer Science ISA Tutor - California State University, Long Beach**

August 2024 - Present

- Facilitated students' understanding of upper level coursework and debugging techniques
- Created and led review sessions to prepare students for midterms, enhancing their confidence and performance
- Encouraged collaboration and guided students in solving problems independently

### **Guest Service Agent - Anaheim Marriott**

September 2023 - Present

- Welcomed guests with a friendly and professional demeanor and provided personalized service
- Addressed guest needs and promptly resolved any issues with empathy to ensure a positive guest experience

## PROJECTS

### **Schedule Maker Personal Project** | Python, BeautifulSoup, PyScript

- Developed a Python program to scrape class information from my schools website, enabling students to view, manipulate, and create custom schedules based on available courses, aiming to fill the gap found in the school's offerings, providing an easier, more efficient way for students to plan their class schedules
- Adapted the program to be used with py-script to be able to be run as an HTML file on my website for easier access
- Created class objects with attributes such as class numbers, days, etc and utilized a backtracking algorithm to create all unique schedules with respect to the preferences selected by the user
- Utilized the BeautifulSoup library to scrape course information from the HTML content of the schools webpages, organizing the extracted information into a structured list for further processing

### **Chat Application** | React, Firebase, Netlify

- Developed a responsive chat application using React and Firebase for user authentication, real-time messaging, and image sharing
- Integrated Firebase Firestore for efficient data storage, Cloud Storage for image uploads, and Context API for user state management
- Implemented dynamic user searching, secure login/register functionality, and auto-scrolling for message threads
- Deployed on Netlify, providing secure access with SSL certification and optimized performance

### **Adventure Game** | C++

- Developed a console-based, interactive room navigation and management game using C++. This project simulates a connected network of rooms, where users can explore, add, rename, and connect rooms through various commands
- Utilized pointers and vectors to manage interconnected room instances to organize the game structure
- Ensured memory management through a custom destructor that disconnects rooms before deletion, preventing memory leaks

### **Personal Website** | JavaScript, HTML/CSS, Netlify

- Created personal website utilizing HTML and CSS and deployed via Netlify to showcase projects and skills
- Integrated interactive JavaScript features to enhance functionality and aesthetics of the site
- Designed and implemented a responsive layout to optimize site performance across devices