

# Diego Barrales

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## EDUCATION

### California State University - Fullerton

Fullerton, CA

#### Bachelor of Science in Computer Science

May 2024

GPA: **3.68** | Honors/Awards: Cum Laude, Dean's List

Relevant coursework: Object-oriented Programming | **Data Structures** | File Structure & Databases | Databases & Applications | Operating System Concepts | **Algorithms Engineering**

### [CodePath](#)

Remote

#### Certificate in Intermediate Technical Interview Prep

May 2024 - August 2024

## TECHNICAL SKILLS

**Programming Languages:** C | **C++** | Swift | Assembly | **Python** | HTML | CSS | **Javascript** | MySQL | PHP | Kotlin

**Technical:** Microsoft Office Suite(Word, PowerPoint, and Excel) | Google's G Suite(Doc, Slides, Sheets) | Visual Studio/VS Code | Android Studio | Qt | **Windows**

## PROJECTS

### TuffyMap - Team of 4

[Github](#)

- Programmed and debugged eight scripts to create the navigation system the application uses to explore the building
- Conducted in-person meetings with my team every week for 6 months to discuss what needed to be done
- Utilized: Kotlin | Android Studio | Unity | C#

### iTravel-Application - Team of 4

[Github](#)

- Organized over 100 airplane data points into a dictionary by manually finding data online to use for the seating chart feature where users could view the planes seating arrangements
- Utilized: Swift | XCode | **MACOS**

### Qubic - Software Developer

[View Project](#)

- Revamped a terminal implementation of 3D tic-tac-toe by creating an AI bot and updating the graphics
- Delivered the final project in the span of four weeks with two different implementation of the **AI Algorithms**
- Extracted six datasets to record the speeds and efficiencies of both algorithms by creating a CSV writer utility
- Utilized: Python | Pygame

### Console Graphics - Software Developer

[View Project](#)

- Coded a 2D Graphics Library in one summer by planning out exactly what my app needed to accomplish
- Programmed a wrapper Color class to utilize ANSI terminal escape codes for printing color to the terminal
- Built the project with CMake to have 3 programs in one project that built simultaneously
- Utilized: C++ | **CMake** | **GoogleTest**

### Lexical Analyzer - Programmer

[Github](#)

- Created a parser to collect all tokens of C code by manipulating the file system's input and output
- Developed an Arena utility system to manage memory allocation and deallocation
- Utilized: C

## ADDITIONAL EXPERIENCE

### Alliance Mentorship Program(AMP) - Mentor | Los Angeles, CA

April 2023 – December 2023

- Mentored a caseload of 1-6 recent high school graduates and guided mentees to complete necessary college/university documentation to ensure college fall enrollment
- Conducted monthly check-in meetings over Zoom, text, or through phone calls
- Engaged in monthly professional development virtual meetings with staff from the Alliance Mentorship Program