

Diego Barrales

Los Angeles, CA • 323-470-9174 • dbarrales06@gmail.com • [LinkedIn](#) • [Github](#) • [Portfolio](#)

EDUCATION

California State University - Fullerton Bachelor of Science in Computer Science 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	Fullerton, CA May 2024
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CodePath Certificate in Intermediate Technical Interview Prep	Remote May 2024 - August 2024
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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	
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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	