

# Marcos U. Alcantar

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## EDUCATION

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### University of California, Davis

Bachelor of Science, Computer Science  
GPA: 3.25

*Davis, CA  
June 2019*

**Relevant Coursework:** Software & Obj-Oriented Programming, Discrete Math, Data Structures, Algorithm Design, Computer Architecture, Web Programming, Linear Algebra, Computer Graphics, Operating Systems, Game Programming.

## SKILLS

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**Languages (Proficient):** C, C++, C#

**Languages (Familiar):** JavaScript, CSS, HTML, Python

**Tools and Frameworks:** Git, Unity3D, CLI, Adobe Photoshop

**Native Language:** Fluent in both spoken and written Spanish

## PROJECTS

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### The Struggle – Game:

*Unity, C#*

- Developed a 2D platformer game in a team of 5 using the Unity engine.
- Implemented and documented the movement and audio systems.
- Assisted other teammates unfamiliar with the Unity framework in implementing gameplay systems, including inputs and animations.

### Alternate Universe – Game:

*Unity, C#*

- Developed a top down 2D shooter game in a team of 4 for the 2018 Hornet and Aggie Game Jam that won 2<sup>nd</sup> place, judged by professional game developers.

### Pong Clone:

*SDL2, C++*

- Recreated a 1-player version of the game “Pong” with a simple AI.
- Designed and implemented low-level systems, including a state machine, collision detection, and graphics and texture handling,

### Curve Drawing Editor:

*OpenGL, C++*

- Implemented a program that, given user input, generates, modifies, and renders Bezier and B-Spline curves using the de Casteljau and de Boor algorithms, respectively.

## WORK EXPERIENCE

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### McDonald’s - Crew Member/Trainer: Napa, CA

*June 2014 – August 2015*

- Ensured efficiency and quality when cooking ingredients, such as patties, chicken, and eggs, at the grill station, and assembling burgers in a timely fashion.
- Maintained an organized and clean environment by sweeping, mopping, washing and sanitizing dishes.
- Trained new employees in the kitchen as fry cooks or line assemblers, fostering leadership and teamwork skills.

## VOLUNTEER WORK

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### Napa High School – AVID Math Tutoring: Napa, CA

*August 2014 – June 2015*

- Led AVID Tutorials and collaborated with groups of 9th grade AVID students who struggled with mathematics.
- Interacted with students by asking questions, not simply giving answers to problems, to guide them through math problems so they understood the concepts.