ALEJANDRO ZAPATA ACOSTA

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EDUCATION

B.S. in Computer Science

Loyola Marymount University, Los Angeles, CA

Minor: Pure Mathematics, Animation

Expected May 2019

GPA: 3.84

Dean's List

RELEVANT COURSES: Data Structures, Algorithms, Multivariable Calculus, Intro. 3D Animation, Programming Languages, Interactive Animation (UE4), Game Design (Unity), Computer Graphics, Interaction Design, Motion Capture/Facial Capture, Artificial Intelligence, Software Engineering Lab, Linear Algebra, Databases, Computer Networks

SKILLS

Technical experience with: Python, Java, JavaScript, C++, C#, Photoshop CS6, Maya, Blender, Unreal Engine 4, Unity, Motion Builder, Faceware Analyzer, OpenGL, React JS.

Languages: Bilingual in English and Spanish (Written and Verbal), beginner Japanese (Written and Verbal).

RELEVANT EXPERIENCE

K'two (LMU CS Senior Thesis) | Los Angeles, CA

February 2019 – Present

Technical Director

K'two is a 1-4 player, browser-based, online multiplayer, class-based, zombie wave survival game under development for my senior thesis. Play the WIP build here: http://justinkyletorres.com/ktwo-webgl-sandbox/.

- Communicated with artist, designer, and programmers in order to achieve and understand each other's goals and concerns with integrating assets into the game.
- Managed and maintained lists of assets required and their status as they moved through development via a custom asset development pipeline.

Radii Robotics | Los Angeles, CA

August 2018 – December 2019

Software Development Intern

- Full-stack development with React framework, AWS, Google maps API, ArcGIS.
- Creating documentation and software design documents.

Summer Undergraduate Research Program | Los Angeles, CA

May 2018 – July 2018

- Researcher
 - Designed, pitched, and developed own research project along with faculty member Dr. Andrew Forney.
 - **DunGen** is a game development tool utilizing modern causal inference tools as applicable to procedural roleplaying game dungeon generation. DunGen generates random but coherent dungeon layouts for use in development or design.

PRESENTATIONS

Southern California Conferences for Undergraduate Research

November 17, 2018

Causal Inference in Procedural Dungeon Generation

github.com/CapnSquirrel/DungeonPCG

- Explored and implemented Bayesian Network causal inference as a procedural content generation method for random role-playing game dungeon generation.
- Generated 2D representation for dungeon layout based on generated output

ACCOMPLISHMENTS AND AFFILIATIONS

SURP research grant

Social Justice Scholarship (Full-tuition)

International Collegiate Programming Contest, Top 20 in SoCal Outstanding Freshman Student Award – Computer Science

Kyodai (Japanese Culture Club), Treasurer Association for Computing Machinery, Co-President Resilience (Immigration Social Justice), Treasurer Esports Club, Treasurer