

ALEJANDRO ZAPATA ACOSTA

11891 Sierra Glen Drive • Riverside, CA 92505 • 951-288-0702
alejandrosquirrel.com • capnsquirrel.com • linkedin.com/in/azapataa/

EDUCATION

M.S. in Computer Science Candidate

Expected June 2021

UCLA, Los Angeles, CA

B.S. in Computer Science

Expected May 2019

Loyola Marymount University, Los Angeles, CA

GPA: 3.84

Minor: Pure Mathematics, Animation

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, WebSocket.

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 and Gameplay Programmer

Game development senior thesis project. 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.
- Designed and implemented core gameplay systems for entity interactions and character abilities.

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 role-playing game dungeon generation. DunGen generates random but coherent dungeon layouts for use in development or design.

PRESENTATIONS

Poster sessions

Undergraduate Research Symposium, LMU

March 23, 2019

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 Textual representation for dungeon layout based on user input

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

Outstanding Senior Student Award – Computer Science

Kyodai (Japanese Culture Club), Treasurer

Association for Computing Machinery, Co-President

Resilience (Immigration Social Justice), Treasurer

Esports Club, Treasurer