

# DAMIÁN BROWNE

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## EDUCATION

### Loyola Marymount University

Los Angeles, CA

Bachelor of Science, Computer Science • Minor: Economics • GPA: 3.63

May 2022

**Awards & Honors:** Arrupe Merit Scholarship (2018-22) • Dean's List • 2<sup>nd</sup> Place, LMU ACM Programming Competition (2020)

### Relevant Coursework

Data Structures

Algorithms

Artificial Intelligence

Intro to Theory of Computation

Cognitive Systems Design

Language Translation & Implementation

**Affiliations:** LMU Association for Computing Machinery (2019-Present) – Mentor for Computer Science Underclassmen and Member, Technical Internship Hunt Club – Co-Founder, Co-President

## SELECTED PROJECTS

### FASim-NFAConverter – Intro to Theory of Computation Project

December 2020

- Implemented fundamentals of theory of computation to simulate construction and querying of finite automata in Java.
- Methodized conversion of nondeterministic finite automata to deterministic finite automata.

### Blind Agent Maze Solver – Artificial Intelligence Project

October 2020

- Applied propositional logic inference and A\* algorithm in Python to program a “blind” agent (with imperfect information about its environment) to avoid obstacles and reach its goal.

### PuckSim - Model of Genetic Evolution – Personal Project

February 2020

- Visually modeled evolution and multi-generational genetic inheritance of fish-resembling agents in Java with the AWT library.
- Agents seek food using two methods, mate to produce offspring with inherited abilities and behaviors (with chance of mutation), and nurse offspring to adulthood.

### K'not! Origins - Online Game – Computer Programming Project

December 2018

- Created a one/two player top-down game in JavaScript with customized maps, textures, playable characters, and enemies/
- Utilized HTML, CSS, PHP, SQL, and MySQL to create a login/signup system and online high scores list.

## WORK EXPERIENCE

### Praxis Design Build

Santa Fe, NM

Construction Laborer

June 2015 – August 2020

- Built and renovated residences in Spanish-speaking environment over five summers for design-build firm in Santa Fe, NM.
- Applied and improved attention to detail, responsibility management, teamwork, and productivity.

### LMU Intramural Sports

Los Angeles, CA

Intramural Referee

September 2018 – November 2019

- Applied and improved communication, cooperation, and customer service skills in work-study job officiating intramural sports.

## SKILLS

**Programming Languages Proficient In:** Java, Python, JavaScript, HTML, CSS, NetLogo

**Languages/Libraries with Experience In:** SQL, PHP, C, Prolog; React.js, pandas, Python NLTK, Java AWT

**Software:** GitHub, MySQL, Microsoft Office, Adobe Photoshop & Premiere Pro, Google Drive, Windows, Mac OS, Linux

**Languages:** English, Conversational Spanish

## OTHER ACHIEVEMENTS

**High School Varsity Basketball (2014-18)** – Captain, 4x Varsity Letter, All-District 1<sup>st</sup> Team, Desert Academy Male Athlete of the Year, Team Statistician

**Danielle Steele Bingham Scholarship (2017)** – Awarded to a Desert Academy High School student embodying highest achievement and passion in mathematics