DAMIÁN BROWNE

damianabrowne@gmail.com · 505.500.2298

damianbrowne.github.io · github.com/damianbrowne · linkedin.com/in/damianbrowne

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 · 2nd 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 1st 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