

Marco Lam

EMAIL 2001.marcolam@gmail.com

PORTFOLIO lammarco.github.io

ITCH.IO macrotree.itch.io

WORK EXPERIENCE

Space Zoologist | [Student Assistant](#)

Oct. 2021 - Present (Summer 2022)

Designed sound effects for player interaction and UI in an Educational Game about engineering principles and managing animal habitats in space

Agile development with biweekly sprints and Trello tasks
Participated in internal playtesting and review

PROJECTS

Rhythm Game Discord Bot | [Programmer](#)

Feb. 2021 - Present (Summer 2022)

Implemented with discord.py-rewrite (**Python**)

- Chat commands to provide song data from rhythm games
- Input/text processing via regular expressions
- Search by multiple fields, including title, song artist, game, etc.

Collaborated with community contributors to structure song data into csv spreadsheet, used to generate a database with multi-layer attributes (such as sub-difficulties).

Backspin Flying | [Solo Developer](#)

June 2020 (2-week Game Jam)

2D endless side-scroller, generated by randomizing level presets.

Created level presets using 2D SpriteShape

Designed and Programmed in **Unity C#**.

ForceSlinger | [Game Programmer](#)

Sept. 2019 - April 2020 (redesigning as [DeltaPhysics](#))

Designed and implemented physics-based platformer in **Unity C#**

- Basic character physics: L/R acceleration, jumping, friction
- Enemy behavior: player-tracking turrets and patrolling walkers
- Ability upgrades: gun with recoil movement, double jump
- Save system using JsonUtility
- Health system with respawning at save points upon death

SKILLS

- Proficient in **C#**, **Python**; experienced with **C++**, **Java**.
- Game engine (**Unity**)
 - Editor tools & GUI
- Version Control (**Git** and **GitHub**).
- Project Management (**Trello**).

EDUCATION

University of California, Irvine

- Overall GPA 3.987
- B.S. in Computer Game Science
Sep. 2020 - June 2024
- B.S. in Computer Science
Oct. 2021 - June 2024 (Double Major)

RELEVANT COURSEWORK

- Data Structure Implementation and Analysis
- Game Engine Lab
- Human Computer Interaction
- Game Systems & Design
- Computer Games & Society