

## Selected Game Projects

### Project Ether

Apr 2023 — Sept 2023

*Lead Programmer, AI System, System Administrator*

- Implement Guard AI using **Unreal Behavior Trees and Blueprints**
- Created **flexible AI Patrol Path editor tools** which **sped up level design iteration**
- Used **Airtable** to **manage programming team of 3** with **Scrum** framework
- Hosted and administrated team **Perforce** server
- 3D action stealth game with diverse characters and developers

### Lambda Squadron

January 2024 — Present

*Gameplay Programming, Design — Solo Project*

- **Physics-based plane controller** using lift, drag, and G-forces
- Wrote **design document during pre-production** to **mitigate redesigns** and create an **efficient timeline**
- **Accessible design** with multiple font options and user-changeable colors
- Inheritance and component design for different entity types
- 3D aerial combat game with a queer narrative, created in Godot

### Curve Pong — Ludum Dare 51

Sept 2022 — Oct 2022

*Programming, UI/UX, SFX*

- **Create event system and goal object scripts using C#**
- Integrated team members' scripts into a complete game system using events
- **Designed, implemented, and styled** HUD and menus
- Created in 72 hours with 3 team members
- Pong with updated visuals and extra mechanics created for Ludum Dare

### Sling and Fling

Oct 2022 — Nov 2022

*UI Programming*

- **Menu design and implementation in Unity**
- Communicated and collaborated with team of 13 people in 5 departments
- Used **Git and Trello** for effective production and task tracking
- Top down 3D action game using magnet physics

## Activities

### Video Game Development Club — Programming Officer

Spring 2023 — Spring 2024

Teach programming topics such as optimization, architecture fundamentals, and tools such as Unity and Godot. Mentor club game projects and organize club events.

### Cybersecurity Club

Fall 2021 — Spring 2024

*President*

*Spring 2023 — Winter 2024*

*Vice President*

*Fall 2022 — Spring 2023*

*Secretary*

*Fall 2021 — Spring 2022*

Host workshops to teach cybersecurity skills such as network analysis and web exploitation. Host competition environments for over 50 members. Organize and delegate tasks to board members. Facilitate collaborations between university organizations.

### Gaming for Impaired Players — Undergrad Research

Fall 2021 — Spring 2024

Develop and test novel devices for interacting with digital environments. Research use cases for impaired players and fine motor skill training.

## Education

**University of California Irvine, Bachelors in Computer Science**  
Computer networks specialization in the Computer Science program

September 2020 — June 2024

## Skills

### Programming

C++, C#, C, Java, GDScript, Python, Lua, Unreal Blueprints

### Tools & Software

Unreal Engine, Unity, Godot Engine, Perforce, Git, Airtable, Trello, Visual Studio