

# Isaac Eckardt

iebd6@umsystem.edu • [izimonster.github.io](https://izimonster.github.io) • (573) 825-7263 • Columbia, MO

## WORK EXPERIENCE

---

### Junior Developer

December 2023 – Present

#### Adroit Studios Gaming Lab (University of Missouri)

Columbia, MO

- Designed and developed a 3D endless runner for university recruitment, utilizing tile-based procedural generation with weighted spawn logic for dynamic level variety.
- Engineered a modular region system with custom inspector tooling, allowing non-programmers to easily tweak the game without code intervention
- Implemented persistent data systems for local leaderboards, player settings, and session progression using serialization.
- Conducted code reviews and technical onboarding for interns, maintaining code documentation to ensure smooth handoffs and project scalability.
- Mentored a local middle school Unity workshop, teaching game design fundamentals and C# scripting.

### Coding Instructor

October 2021 – Present

#### Code Ninjas

Columbia, MO

- Translated fundamental CS concepts (OOP, flow control, variables) into actionable lessons in C#, JavaScript, and Lua
- Provided real-time debugging and error resolution for student projects in Unity and Roblox Studio, teaching troubleshooting methodologies.
- Instructed students on 3D spatial reasoning & logic implementation using TinkerCAD and modding tools.

## EDUCATION

---

### University of Missouri

Columbia, MO

#### Computer Science - BS

Expected Graduation: May 2027

Relevant Coursework: Neural Machine Learning, Software Engineering, Database Management, Computer Modelling & Animation, Advanced Algorithm Design, Unix Operating Systems, Computer Organization

## PROJECTS

---

### Game Development

May 2018 – Present

- Adapted a graph-based pathfinding algorithm to generate interconnected, traversable indoor layouts.
- Utilized Unity NGO to develop a simple client-server architecture for a classic arcade clone, handling state synchronization and latency management.
- Reverse-engineered *Risk of Rain 2* source code (C#/Unity) to inject custom character assets and gameplay logic.
- Participated in several game jams, rapidly prototyping and deployed several playable titles in under 48 hours, managing scope and team coordination.

## SKILLS

---

**Languages:** C#, C++, Python, SQL, HTML/CSS, JavaScript, Lua, Bash

**Tools:** Unity (2D/3D, Netcode), Git, Perforce, Linux, Blender