Adam Zaffram

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Objective

Seeking a full-time game programming position using skills in C, C++, or C#. Available May 2024.

Education

Rochester Institute of Technology (RIT), Rochester, NY Expected Graduation: May 2024 Master of Science, Game Design & Development GPA: 3.90/4.00 Bachelor of Science, Game Design & Development GPA: 3.96/4.00 Awards: Outstanding Undergraduate Scholar Award Courses Highlights: AI for Gameplay, Game Engines, Console Development, Game Graphics Programming

Skills

Programming Languages: C#, C++, C, .Net, HLSL, Blueprints, HTML, CSS, JavaScript, and Python Software: Microsoft Visual Studio, Unity, Unreal, Sony PS4 Pro Devkit, Autodesk Maya, GitHub, Perforce

Projects

Gameplay & System Programmer, Libertalia: A Pirate's Paradise

- Handled data persistency across all scenes and the loading and saving of player progress.
- Developed a system to procedurally generate islands with Perlin Noise and Wave Function Collapse.
- Added a friend and enemy state machine for simple auto-battling when plundering an island.
- Spearhead key gameplay features and interface interactions to provide an exciting and informative experience.

System Programmer, Physics Engine

- Implemented PhysX into a C++ game engine with DirectX 11 graphics to provide real-time physics simulations.
- Compiled a scene with Jenga and throwable objects to demonstrate rigid body behavior and collision interactions. •

Gameplay & AI Programmer, Drop7

- Rebuilt the mobile game Drop7 in C# as a console app (.Net 6.0) and implemented machine learning.
- Utilized the Q-Learning algorithm to learn how to play Drop7 without a model.
- Evaluated results between smart agent and a random baseline and strived to improve performance.

Gameplay & Systems Programmer, Camo Chameleon

- Embedded an achievement system that offers optional difficulty and improves the game's replay value.
- Established varied enemy pathfinding behaviors to balance the tension and strategy within each level's gameplay.
- Developed tile-based levels with a color changing mechanic and Fog of War to mimic a Chameleon's environment.

Employment

Intern Programmer, Velan Studios

- Worked in a team of 4 to maintain bugs and carry out feature requests in their proprietary game engine, Viper.
- Focused on Viper's Visual Scripting module and interfaced with ImGui and ImNodes APIs. ٠

Teacher Assistant, Rochester Institute of Technology

- Assist in Math Graphical Simulation I class with grading and providing feedback on linear algebra concepts.
- Assisted in Interactive Media Development class with an introduction to Unity & applying linear algebra concepts.

Emerging Technology Intern, Retail Business Services

- Programed Raspberry Pi and ESP32-C3 microcontrollers with a combination of C, C++, and Python.
- Designed and developed an API for microcontrollers to alter RGB LEDs.
- Hosted servers with SSL on the microcontrollers to trigger execution of code via HTTPS requests.

General Manager, WITR Radio

Oversee all station departments, host weekly meetings, file FCC paperwork, update guides, policies, and bylaws.

August 2023 - Present

January 2023 - April 2023

November 2022 - December 2022

August 2022 – December 2022

May 2023 - August 2023

August 2022 - Present

June 2021 – December 2021

November 2020 – Present