Alexander Markoe

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Education

Rochester Institute of Technology, Rochester NY   GPA: 3.98
Bachelor of Science, Game Design and Development   Expected Graduation May 2022

Skills

Languages: C++, C#, HTML, CSS, PHP, Javascript
Libraries: MonoGame/Microsoft XNA, SDL2
Software: Visual Studio, Zbrush, Blender, Aseprite, Unity, Photoshop, Gimp, Maya

Featured Projects

- **Jump the Gun** (Team Project)   (Aug. 2020 - Present)
    - Implemented systems for animation and character state control for fluid transitions between animation states
    - Designed game art direction to ensure a visually consistent style
    - Created visual effects for shooting various guns utilizing Unity's particle effects system

- **Campfire Simulator** (Solo Project)   (March 2021)
    - Web application made using the canvas Javascript library
    - Sandbox that allows users to interact with a block of wood and set it on fire. Also includes controls to modify different aspects of the sandbox
    - Created a dynamic fire particle system that works in tandem with a wood physics system

- **Autochess Experiment** (Team Project)   (July 2020 - August 2020)
    - Unity project using the Mirror networking library
    - Created systems for calculating combat situations using pathfinding algorithms server-side and visualizing the simulation to each client

- **Pogo Peril** (Team Project)   (March 2019)
    - Implemented systems for animation flow as well as character state control
    - Created dynamic background elements that change with player elevation
    - Created particle systems for player interaction with mobile interfaces

Experience

- **RIT Cybersecurity** - *Front-End Developer* (Aug. 2020 - Dec. 2020) | Rochester, NY
    - Designed UI mockups for different data visualizations for college cybersecurity competitions to be more accessible and engaging for people unfamiliar with such competitions
    - Implemented UI mockups into a data visualization program designed in Unity
    - Created animations for visualizations to increase audience engagement