Colton Soneson (860)549-3596

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Portfolio: https://colton-soneson.github.io/

## **Qualifications and Key Competencies**

- Advanced experience (~ 4 years) with programming languages C++, C, and C#
- Moderate experience (~2.5 years) with Vulkan Graphics API and GLSL
- Minor exposure with programming languages Cg, HLSL, Python, HTML, and Java

## **Education**

# Champlain College, Burlington, VT

3.7 GPA

Pursuing a B.S. Degree in Game Programming, Minoring in Mathematics

Anticipated Graduation: May 2021

#### **Relevant Coursework**

- Game Engine Design and Implementation
- Intro to Modern Graphics / Intermediate Graphics Programming
- Real-Time Debugging

- Game Architecture
- Game Production I / II / III

Game Physics

AI for Games

Animation Programming

 Calculus I / II / III and Linear Algebra

## **Technical and Communicative Skills**

- Experience building a renderer from the ground up using Vulkan SDK
- Familiar with Visual Studio Enterprise IDE for use in various programming languages
- Developed C++ code following the programming standards and guidelines of Unreal Engine 4
- Developed C# code and C++ plugins for Unity Game Engine
- Ability to model in both Blender and Autodesk Maya
- Worked and Participated in SCRUM based team environments for entirety of university
- Determined to have a conflict-free environment to not let production come to a halt
- Produced a game alongside 13 other team members with over 70,000 downloads

## **Released Works**

## "Fission Editor"

Freelance (Personal Project) February 2019 to Present

Developer: Endless Suffering

March 2020 to July 2020

# Graphics Engineer, Graphics Programmer, Animation Programmer

- Sole Developer of this ECS based Editor
- Created Renderer using Vulkan SDK backend
- Formed two separate renderers that share instance properties
- Developed Scene Structure with Options Menu to Add or Remove Objects
- Programmed GLSL shaders for Phong lighting and Toon lighting
- Created Keyframing System with Clip Controllers
- Implemented Skeletal Creation and Animation

Link: <a href="https://github.com/Colton-Soneson/FissionEditor">https://github.com/Colton-Soneson/FissionEditor</a>

#### "Forkdrift"

# Lead Graphics Programmer, Vehicle Programmer, Environmental Lighting, etc.

• Coded adjustable Cg shaders for artists

- Developed physics and constraints for forklifts in game
- Handled lighting of environment and Light Weight Render Pipeline setup

Link: <a href="https://store.steampowered.com/app/1318940/Forkdrift/">https://store.steampowered.com/app/1318940/Forkdrift/</a>

### Work Experience

## iD Tech Camps and OPL

## Tech Coordinator/Instructor

CT and Online June 2019 to Present

- Taught Unity, C#, Python, Java, Maya, and Blender to students whose ages range from 9 to 19
- Learned important communication skills required when teaching coding or 3D modelling