DAN **SINGER SOFTWARE ENGINEER**

dansinger.me

**** 724-759-0012

in dan-singer97

dan-singer

Committed, highlymotivated software engineer. Fourth-year student at the Rochester Institute of Technology seeking a full-time software engineering position beginning in the summer of 2020

Skills

PROGRAMMING

C/C++

C#

Java

Python

WEB DEVELOPMENT

HTML

CSS

JavaScript

Node.is React

MySQL

GAME DEVELOPMENT

Unity

Unreal Engine 4

MonoGame

OpenGL

DirectX

HLSL

3D Modeling

OTHER

Git

Audio Production

Adobe Suite

Jira

Perforce HelixCore

Education

Rochester Aug. 2016 Institute of Technology BS Game Design & Development 2020 Cumulative GPA: 3.95

Minor: Music and Technology

Employment

Oxide Games

Gameplay Engineering Intern

Timonium, Maryland May 2019 to Aug. 2019

- Worked on an unannounced AAA title for a first party publisher on a 30+ member team.
- Programmed new gameplay systems and contributed to existing ones with direction from game designers.
- Contributed to a large C++ codebase being worked on by many developers.

American Greetings

Cleveland, OH

Interactive Developer Intern Jan. 2018 to Aug. 2018 • Developed eCard games using HTML, CSS, JavaScript, TypeScript, and various JavaScript frameworks such as Pixi.js, Three.is. and GSAP.

- Played key programming role in two Hidden Object Game eCards which are now in production.
- Wrote code that was focused on performance optimization and tool development.
- Took part in code reviews and used Jira for project management.
- Worked with other members of the Digital Product Development team and with the art and creative teams
- Solo developer for research project regarding a new application format using Unity, C#, and C++.

Absentia Virtual Reality Private limited

Pittsburgh, PA

May 2017 to Aug. 2017

Game Tools / Gameplay Programmer

- Developed tools in Unity to speed up and make the game development and animation process easier.
- C# Gameplay Programmer for large-scale Unity project.
- Worked on solo projects and in 2-6 member teams.

Aewtbe

Pittsburgh, PA

Lead Game Programmer

June 2016 to Dec. 2016

- Developed a 2D platformer which featured swimming, shooting, and tank-driving with C# and Unity.
- Worked with client to integrate his design choices as well as art and audio from other freelancers.

Projects

Dark

Oct. 2018 to Oct. 2018

- Solo developer of a procedurally-generated horror tech-demo.
- Developed with Unreal Engine 4 and C++. Implemented backtracking/depth-first-traversal algorithm to generate random 3D mazes.
- Incorporated horror aesthetic and an escape mechanic around the random mazes.

Nov. 2017 to Dec. 2017 Space Voyager

- Solo developer for a web-based space shooter featuring an open-level environment.
- Built with HTML, CSS, JavaScript, and the Pixi.js renderer.
- Designed and implemented robust, object-oriented architecture.
- Composed original soundtrack.

Autonomous Agent Simulation

Nov. 2017 to Dec. 2017

- Solo developer for a fantasy environment with agents that move and behave in believable ways.
- Studied and implemented Craig Reynold's steering algorithms, such as path following, wandering, and flocking.
- Implemented custom collision detection in the Unity engine.

Automaestro

Feb. 2017 to Apr. 2017

- Developed music application with Unity and C# that allows anyone to play music on a virtual piano without worrying about playing the correct notes.
- Designed and implemented project architecture.
- Published to Windows Store and implemented in-app purchases.

Awards

HeroJam · Best Overall Game

Apr. 2017

- Developed FPS: Finite Platform Shooter on a two-person team with C# and Unity. This is a first person puzzle game where the player must place platforms to reach the goal.
- Lead programmer for the game.
- Composed the game's soundtrack.

Upwork · Top Rated Freelancer

July 2017

Awarded Top Rated status on Upwork for delivering consistent, polished results to clients for game development jobs.

Activities

RIT Swing Dance Club · Member

Jan. 2017 to Current

Member of the RIT Swing Dance Club, an environment where students instruct other students on swing dancing techniques.

RIT lazz Ensemble · Section Leader

Jan. 2017 to Current

Member and lead instrumentalist for RIT's top jazz ensemble. Play the tenor saxophone in this ensemble.