

# DAN SINGER

## GAME PROGRAMMER

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Committed, highly-motivated game programmer. Fourth-year student at the Rochester Institute of Technology seeking a full-time game development position beginning in the summer of 2020.

## Skills

### PROGRAMMING

C/C++  
C#  
Java  
Python

### WEB DEVELOPMENT

HTML  
CSS  
JavaScript  
Node.js  
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 Institute of Technology  
BS Game Design & Development 2020  
Cumulative GPA: 3.95  
Minor: Music and Technology

Aug. 2016  
to May  
2020

## Employment

### Oxide Games

Gameplay Engineering Intern

Timonium, Maryland  
May 2019 to Aug. 2019

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

### American Greetings

Interactive Developer Intern

Cleveland, OH  
Jan. 2018 to Aug. 2018

- Developed eCard games using HTML, CSS, JavaScript, TypeScript, and various JavaScript frameworks such as Pixi.js, Three.js, and GSAP.
- Programmed 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.
- Collaborated 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

Game Tools / Gameplay Programmer

Pittsburgh, PA  
May 2017 to Aug. 2017

- Developed an animation editor tool in Unity.
- Programmed first-person-shooter gameplay mechanics in Unity.

### Aewtbe

Lead Game Programmer

Pittsburgh, PA  
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

### Automaestro (Personal Project)

- 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.

### Dark (Personal Project)

- Created a procedurally-generated horror tech-demo 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.

### Samurai Shift (Academic Project)

- Worked in a team of six people to develop a gravity-based 2D puzzle-platformer with Unity.
- Implemented gravity-switching mechanics through the Rigidbody2D physics component.
- Implemented the State pattern for the player controller.

### Space Voyager (Academic Project)

- Developed 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.

## 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 Gameplay Programmer.
- Composed the game's soundtrack with FL Studio.

### 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 Jazz Ensemble · Section Leader

Jan. 2017 to Current

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