DAN SINGER SOFTWARE ENGINEER

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dan-singer

Committed, highly-motivated software engineer. On the side, enjoys playing, creating, and composing music. Third-year student at the Rochester Institute of Technology seeking a co-op for the summer of 2019.

Skills

PROGRAMMING

C++

C#

Java

Python

WEB DEVELOPMENT

HTML CSS

JavaScript

Pixi.js

Three.js

Node.js

GAME DEVELOPMENT

Unity

Unreal Engine 4

Monogame

3D Modeling

OTHER

Git

Audio Production

Adobe Suite

Jira

Education

Rochester Institute of Technology BS Game Design & Development

Cumulative GPA: 3.94

Experience

American Greetings

Interactive Develope

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.
- 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

Game Tools / Gameplay Programmer

Pittsburgh, PA

May 2017 to Aug. 2017

- 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.

Lergent DevelopersPittsburgh, PALead Game ProgrammerNov. 2015 to Mar. 2016

• Developed an educational training game in Unity.

• Ported the educational training game to the web with the help of BabylonJS to achieve better performance.

TechRiver Pittsburgh, PA
Web Developer June 2013 to Aug. 2013

Used HTML and CSS to design the front-end for a mobile scavenger hunt application.
 Implemented responsive web design principles.

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.

Space Voyager Nov. 2017 to Dec. 2017

- Solo developer for a web-based space shooter featuring an open-level environment.
- Built with HTML, CSS, JavaScript, and the Pixi.js rendering engine.
- Efficient, well-planned code using clear OOP principles.
- Used Git for version control.
- 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 that allows anyone to play music on a virtual piano without worrying about playing the correct notes.
- Published to Windows Store
- Initially developed in a group of three at a 24 hour hackathon, and was a primary programmer for the application framework in Unity and C#.
- Solo developer on the project after the hackathon coded, developed, and expanded the application and converted it to a UWP app.

Awards

HeroJam · Best Overall Game

Apr. 2017

- Developed FPS: Finite Platform Shooter on a two-person team. This is a first person puzzle game where the player must place platforms to reach the goal.
- Developed with C# and Unity.
- Composed music for the game with FL Studio.
- Responsible for 95% of the programming.
- Used version control to collaborate and develop efficiently.

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 Iam Club · Member

Sept. 2016 to Current

Member of RIT Jam Club, a group where everyone is free to improvise and play music together. Play the tenor saxophone in this group

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.