Ryan Jacob Pfeifer

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> EDUCATION

B.S. Computer Science Texas A&M University

May 2020

- o GPA: 3.96
- o Minors: Game Design and Development, Cybersecurity
- Related Coursework:

Level Design Artificial Intelligence
Game Design Computer Graphics
Game Development Operating Systems

> WORK EXPERIENCE

Gameplay Engineer at ArtCraft Entertainment

June 2020 - Present

- Unannounced Project (August 2021 Present)
 - o Utilized Unreal Engine 4 tools and technologies to create a prototype multiplayer project
 - \circ Collaborated with design to fine-tune and implement game systems from game design documents
 - o Architected and implemented core gameplay features including AI, UI, and combat systems
- Crowfall (June 2020 August 2021)
 - o Built new gameplay features and debugged existing ones on a live-service MMORPG using Unity
 - o Assisted in onboarding new hires and transferring game system ownership
 - o Helped establish a network payload contract between the client and various microservices
 - o Promoted from associate to mid-level Gameplay Engineer after one year
- Software Engineering Intern at Synchrogrid

May 2019 - August 2019

- o Worked at a startup company on the back-end of a smart grid Node.js application in C++
- o Learned and utilized an industry-specific scripting language (CUPL) to automate calculations for power lines
- Made and published a Visual Studio Code syntax highlighter for CUPL which has been installed over 360 times
- Built an automated testing framework for the back-end of an application using Jest and the SheetJS API

PROJECTS

• Chillennium 48 Hour Game Development Competition (1st Place Overall Winner)

Fall 2019

- Competed in a team of 4 to develop a video game in 48 hours using Unity and C#
- o Rapidly prototyped, designed, and implemented gameplay mechanics and AI behavior
- Won 1st Place Overall out of over 90 games judged with around 400 participants
- Game Development Project Frog and Croc Team Leader

Fall 2019

- o Led an interdisciplinary team in developing a semester-long video game project using Unity and C#
- o Designed and implemented gameplay mechanics, programmed player movement, and designed levels
- Highly praised by a panel of professional game developers
- Interactive Virtual Environments Project Reflector VR

Spring 2019

- o Developed a VR game with a team of artists and programmers using Unity, C#, and HTC Vive hardware
- o Utilized the SteamVR library to implement gameplay mechanics, program AI behavior, and design levels
- o Demoed the game live at the Vizagogo Visualization Showcase where attendees played the game
- Personal Project Summon the Spell Book

Summer 2019

- o Collaborated with a small team to draft and iterate on a game design document
- o Prototyped and iterated on gameplay mechanics, programmed AI behavior, and designed levels using Unity
- Senior Capstone Design Project Lord of the Strings Team Leader

Spring 2020

- o Leader of a team of programmers tasked with creating a semester-long web application project
- o Implemented front-end systems using HTML, CSS, and JavaScript with the anime. is animation library
- Volunteering Coding Lessons for 5th Grade Students

Fall 2016 - Spring 2019

- Organized and prepared slideshows and code samples for the Hour of Code using Google Slides and repl.it
- Taught lessons covering various programming concepts such as AI, cryptography, and binary numbers
- Personal Project Music Visualizer

Summer 2018

- o Created a webpage to visualize the waveform of any given .mp3 file
- Used HTML, CSS, and JavaScript with the Web Audio API to display dynamic graphics

> SKILLS

- Programming Languages
 - o C++, C#, Java, JavaScript, HTML, CSS, Python, x86 Assembly
- Software
 - o Unity, Unreal Engine 4, Unreal Blueprints, Git, Perforce, OpenGL, GLSL, Node.js