EMPLOYMENT

Game Developer Pocket Talos LLC June 2019 - Present

AutoKnight (in development and published under Iron Horse Games)

- Designed and programmed all mechanics and features. C#, Unity
- Managed scrum notes, sprint reviews reports, and development blogs.
- Worked closely with the publisher and QA testers to ensure new features were designed and executed well.
- Integrated communication between cloud-based servers, web services, and front-end systems.
- Built an anti-cheat system that encrypts save data and detects data tampering. Data tampering hat encrypts save data and detects data tampering. Data tampering hat encrypts save data and detects data tampering. Data tampering hat encrypts save data and detects data tampering. Data tampering hat encrypts save data and detects data tampering. Data tampering hat encrypts save data and detects data tampering. Data tampering hat encrypts save data and detects data tampering. Data tampering hat encrypts save data and detects data tampering.

March 2019 - June 2019, Brain Game Center January 2020 - Present

• Built several variations of a psychological test that assessed visuospatial short-term working memory that helped <u>train 30,000 people</u> on working memory to understand individual differences in interventional needs. *C#*, *Unity*

- Refactored a psychological test's tutorial slides to dynamically utilize and set image and text components to render the slide rather than having a single poorly unscalable and unmaintainable picture for each slide.
- Coordinated with mentors to ensure new features followed design specifications.

EDUCATION

Riverside, CA University

Technical Software Developer Intern

University of California, Riverside

Fall 2017 – June 2021

- B.S. in Computer Science, June 2021 (Dean's List)
- Undergraduate Coursework: Virtual Reality; System Administration; Database Management; Software Testing & Verification

TECHNICAL EXPERIENCE

Projects

- Incrementum (July 2019 Present). A set of tools geared towards assisting game developers with a variety of tasks for incremental / idle game development (reduced analysis. Provides formulas and iterative models of a variety of incremental / idle game progression systems as well as a robust numeric library that supports multiple notations. Reduced time spent calculating optimal choice by 93% C++, SDL
- Schedule It! (October 2019 December 2019). A scheduling web application for time management, and coordinating meetings. You can create events, invite friends to your events, and join other events! *React, Javascript, Firebase*
- Unconventional Space (March 2019 May 2019). A 3D VR puzzle game involving the manipulation of the user's perception of space to simulate non-euclidean geometry, creating these seemingly impossible illusions. C#, Unity, Oculus
- Runescape Bot (March 2018 May 2019). Created an automation program for the game that simulated human interaction while completing specific tasks at a reasonable speed. C++, SDL, OpenCV, TensorFlow
- Tanks AI (April 2019). Developed a dynamic AI bot for the Unity Project *Tanks* whose behavior and difficulty is based on the actions the player takes. *C#*, *Unity*
- Pac-Man (Jan 2019). Developed my own game engine with custom ghost A.I. C++, SDL

Languages and Technologies

- C++; C#; SQL; Java, Javascript; Bash; Python
- Unity; SDL; Maya; Blender; XML; Oculus, SFML; OpenCV; OpenGL; Unreal Engine; TensorFlow; Firebase; AWS;
 GameSparks; PlayFab; React; Github; Balsamiq; Unity Ads; Facebook Ads; ironSource; AppsFlyer

Other

• Created a Discord bot for my server that moderated conversations, delivered notifications, and scheduled events.