

EMPLOYMENT

Game Developer	Pocket Talos LLC	Jun 2019 - Present
<i>AutoKnight</i> (in development and published under Iron Horse Games) <ul style="list-style-type: none"> Designed and programmed all mechanics and features. <i>C#, Unity</i> 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 and web services. Built an anti-cheat system that encrypts save data and detects data tampering. Data tampering <u>had 84% precision and 76% recall with a group of cheaters with at least 5 months of experience</u> 		
Technical Software Developer Intern	Brain Game Center	Mar 2019 - Jun 2019, Jan 2020 - Present
<ul style="list-style-type: none"> 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. <i>C#, Unity</i> 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 of California, Riverside	Sept 2017 – Jun 2021
<ul style="list-style-type: none"> B.S. in Computer Science, June 2021 (Dean's List) Coursework: Virtual Reality; System Administration; Database Management; Software Testing & Verification 		

TECHNICAL EXPERIENCE

Projects

- Incrementum** (Jul 2019 - Present). A set of tools geared towards assisting game developers with a variety of tasks for incremental / idle game development. Provides formulas and iterative models for a variety of progression systems as well as a robust numeric library that supports multiple notations. Reduced time spent calculating optimal choice by 93% with a group of mostly novice game developers *C++, SDL*
- Schedule It!** (Oct 2019 – Dec 2019). An online calendar tool for time management and coordinating meetings. You can view current events and schedule events accordingly. *React, Javascript, Firebase*
- Unconventional Space** (Mar 2019 – Jun 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** (Mar 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** (Apr 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; Oculus, SFML; OpenCV; OpenGL; Unreal Engine; TensorFlow; Firebase; AWS; Maya; Blender; XML; GameSparks; PlayFab; React; Github; Balsamiq; Unity Ads; Facebook Ads; ironSource; AppsFlyer

OTHER

- Contributed to the TensorFlow.Net repository by porting unit tests from Python to C#, and debugging examples and unit tests. *C#, Python*
- Created a Discord bot for my *AutoKnight* QA server that moderated conversations, delivered notifications, and scheduled events. *Python*