Samuel Liu

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WORK EXPERIENCE

Digital Extremes

Sep 2023 - Dec 2023

AI Game Programmer Intern

- Developed and shipped new AI behaviors, gameplay events, and world assets using C++ and Lua as part of 'Whispers in the Walls' major content update for 'Warframe'
- Improved and fixed existing systems of a Live Service video game in response to player feedback
- Modified animation tree and rigging of animation skeletons to synchronize animations with scripted events

Behaviour Interactive Jan 2023 - Apr 2023

Game Programmer Intern

- Implemented interactive gameplay elements and visuals for Silent Hill project
- Designed a tool within Unreal Engine to efficiently handle a large number of assets, dramatically improving productivity of artist team

Eden Industries Jan 2022 - Apr 2022

Game Programmer Intern

- Spearheaded development of four unique boss fights within internal game engine using C++ and Tiled
- Enhanced AI logic for overworld map navigation and automatic combat during encounters

Alcumus May 2021 - Aug 2021

Software Developer Intern

 Implemented REST APIs using Spring Boot for the Field-ID application, making use of appropriate design patterns and coding conventions

OpenText Sep 2020 - Dec 2020

QA Specialist Intern

Ran statistical analyses on data generated by Jenkins and JMeter to find performance bottlenecks

Geotab Jan 2020 - Apr 2020

Software Developer Intern

- Led team responsible for development of internal web page using React S to assist in data entry
- Developed, documented, and programmatically tested REST API endpoints for assessment page

EDUCATION

University of Waterloo Apr 2024

Bachelor of Applied Science, Computer Engineering, Honours

PROJECTS

Unity 2D Game Dec 2020 - Present

Fallen Templar | notsamyul.itch.io/fallen-templar

- Single-handedly ideated and developed a video game using C# and Unity, implementing systems for audio, graphics, and gameplay
- Wrote algorithms for procedural generation and A* pathfinding to improve variation of gameplay

SKILLS & INTERESTS

- Languages: C, C++, C#, Java, Python, Lua, Kotlin, Rust, Assembly (RISC-V)
- Technologies: Unity, Unreal Engine, Android Studio, React, Git, Perforce, SQL, Node, Docker
- Interests: swimming, rock climbing, music, video games (Celeste, Bioshock Infinite, Teamfight Tactics)