SAMUEL SCHERER

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SOFTWARE ENGINEER

EDUCATION

University of Cincinnati
College of Engineering,
Computer Science
Class of 2022

Technical Skills

- **C++**
- **C# / Unity**
- **Python**
- Docker
- **Linux**
- **Gitlab CI**
- **Steamworks**
- .sh/.bat Scripting
- Google Cloud Platform (some)
- Markdown
- Unreal Engine 4 (some)

SOFTWARE ENGINEERING EMPLOYMENT EXPERIENCE

Siemens Digital Industries Software – Software Engineer (Full Stack) May 2022 - Current

- Enable Teamcenter administrators to classify Workspace Objects using re-usable Classes, Properties, and Key-LOVs.
- Write maintainable, readable, and scalable code using Template Method Pattern in C++ and JavaScript.
- Maintained and understood Teamcenter Classification's 20+ year legacy codebase.
- Created CPPUnit (C++), Gtest (C++), JUnit (Java), Jest (JS), and Cucumber (Gherkin) tests to validate code changes.

Northrop Grumman – Co-op + Part-time May 2021 – May 2022

- Extended an automatic test framework using Python and Selenium.
- Wrote automatic tests for a web application using Python and Selenium.
- Created Gitlab CI pipelines for running tests against many platforms.

Northrop Grumman – Co-op Aug 2020 – Jan 2021

- Created and Android Testing pipeline using Gitlab CI.
- Created an Android debugger application in Python which reads Logcat output to detect system changes in a virtual Android device.
- Created a tool using Python, PyGame, and Git to visualize changes in a Git repository over time.

Siemens Digital Industries Software – Co-op *(Two Semesters)* Aug 2019 – May 2020

- Released and maintained Teamcenter Classification AI as part of a scrum team.
- Maintained and added features to several C++ files and Bash scripts.
- Created documentation for end users and developers.

University of Cincinnati: NIST Indoor Location Project – Co-op + Part-time Aug 2018 – May 2020

- Independently created a Unity project in which users navigate transparent 3D maps of buildings, with the ability to see points of interest like Fire Extinguishers through walls.
- Gathered requirements from a Civil Engineering professor, who led the project.
- Incorporated a variety of tools such as Unity Shaders, Google Cloud Datastore, and Google Cloud Storage.

GAME DEVELOPMENT

See more projects at **sam-scherer.com** and **swiimii.itch.io**, or see code at **github.com/swiimii**

Dualikiwi – Unity2D + Steamworks 2022 - 2025

- 2D Sokoban/Puzzle game, in which players must defeat their clones which mirror their movements.
- Designed & implemented a custom level editor, with support for sharing level collections on Steam.
- Contributed 100% of Unity / C# code, Steam store assets, promo material.
- Managed the creation of Dualikiwi LLC, under which the game is developed & published.

Spaceships VR – Unity3D + Oculus Quest 2 project 2021

- VR Puzzle game created in 24 hours for the MakeUC 2021 Hackathon.
- Players pilot a fighter spacecraft, shooting lasers at enemies and dodging projectiles.
- 3rd place Hackathon winner, out of 100 projects submitted.

Space Escape Room – Unity3D project 2021

- Multiplayer puzzle game created in 24 hours for the RevolutionUC 2021 Hackathon.
- Players work together to repair their spaceship before they run out of oxygen.
- 3rd place Hackathon winner, out of 36 projects submitted.

LEADERSHIP AND COMMUNITY INVOLVEMENT

International Game Developers Association – Cincinnati Chapter Leadership Head Feb 2025 – Current
International Game Developers Association – Cincinnati Chapter Leadership Team Spring 2024 – Feb 2025
University of Cincinnati Board Game Club – Executive Board 2018-2021