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| Joshua Shlemmer Software Engineer | |  |  | | --- | --- | | 360-471-5399 |  | | joshuashlem@gmail.com |  | | linkedin.com/in/joshua-shlemmer |  | | Joshuashlemmer.com |  | |

Experienced in Build Systems, Continuous Integration/Deployment, and Game Engine Development

# Skills

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| **Languages**  C++ (Proficient)  Python (Proficient)  C# (Proficient)  XML (Proficient)  PHP (Familiar) | **Technologies**  Unreal Engine  Perforce  Git  Jenkins  CMake | **Platforms**  Windows (Proficient)  Xbox (Proficient)  UWP (Proficient)  Linux (Familiar)  WebAssembly (Familiar) | **Additional**  Game Engine Dev  Tools Programming  Build Automation  Multiplatform Development  Agile Development |

# Professional Experience

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| Tools Engineer (contract) - Probably Monsters | 7/2019 – 5/2020 |

##### Worked on a currently unannounced title made in Unreal Engine 4

* Collaborated with the design team to design and implement a system to import game data from excel spreadsheets to ease balancing lots of gameplay values, reduce developers getting blocked by checked out assets, and shrink the size of updates.
* Created a plugin for the Reaper Digital Audio Workstation to export the timing between audio files in a session as well as generate placeholder TTS dialog where recorded dialog was not available.
* Streamlined the process of adding, updating, and organizing dialog in Wwise, allowing new dialog to rapidly go from being recorded to tested in game.

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| Build Engineer (contract) - Xbox Global Publishing Group | 2/2019 – 7/2019 |

##### Worked on Crackdown 3, a AAA 3D action game published by Microsoft Studios featuring co-op and versus multiplayer.

* Migrated the build pipelines from two different developers onsite, upgrading and rewriting them to work on XGPG servers.
* Upgraded old pipelines to Jenkins Declarative Pipelines to allow for easier continued updates, maintenance, and archival.
* Automated the process of building an Unreal Engine project, cooking the assets of the project, and deploying platform packages utilizing the Unreal Automation Tool, Playfab, and Jenkins Declarative Pipelines.
* Communicated with the Test team to track regressions and bugs in the build system to better understand their root causes.

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| Software Engineer - DigiPen R&D – Zero Engine Team | (intern) 3/2016 – 1/2018(Full-Time) 1/2018 – 9/2018 |

##### Zero Engine is an open source, component-based, 3D game engine with every major system written in-house. (zeroengine.io)

* Ported the Zero Engine over from a Visual Studio project to a CMake project, enabling cross-platform development.
* Co-Created a presentation/tutorial using the knowledge from porting the Zero Engine project to teach students and CMake beginners how to get started using best practices. (github.com/playmer/CMakePresentation)
* Extended the core engine’s documentation system to export template information, allowing for better type information in the code ref and in editor tooltips to improve type discoverability for users.
* Added support in the team’s Buildbot configuration for testing WebAssembly and Linux builds, learning the build pipeline for both platforms in the process.

# Education

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| Bachelor of Science in Computer ScienceDigiPen Institute of Technology | 12/2017 |

#### Interesting Projects

* Implemented a Goal-Oriented Action Planning (GOAP) system in C++ for a game project to allow for emergent behavior with simple components. (github.com/Yellowrobe/GOAP-Implementation)
* Created a modular steering behavior system for easy movement behavior generation in a 3D game project.
* Wrote the core of a game engine in C++, utilizing a component-based design to make the engine easy to expand.