Roland Shum

Dev Ops Engineer

■ shumwengsang@gmail.com (425) 301-0156 (text preferred)

Greater Seattle Area

Output

Description:

in linkedin.com/in/wengsangshum/ ★ rolandshum.carbonmade.com/

SKILLS

Programming Languages

C++ C C# Python Java PowerShell Bash YAML

Tools

Git | SVN | GitHub | AWS | Azure | GitLab | Docker

API / Engine

OpenGL | Unity | Vulkan

Operating System

Windows | Debian Linux

ACADEMIC PROJECTS

Dev Ops Engineer, Department of Astromaterial Acquisition

Team of 10 - C# | Unity

3D single-player PC voxel adventure game using Unity engine

- Setup Docker container that ran Unity on any given Linux server with the right hardware
- Setup private GitLab server CI/CD with YAML config file to run automated tests on merge requests
- Created an item crafting graphical tool so designers can modify the crafting experience graphically
- Created a bash script that fixes Unity editor bug, changing a 2 minute process to 10 seconds

Engine Developer, Arc Apellago

Team of 12 - C++ | Custom Engine

2D single-player PC action platformer; **Published on Steam**

- Automated test systems using AWS to continuously update school SVN from our private git repo
- Setup Azure build system that ensured that have caught 20+ unintended broken pushes
- Wrote ImGui reflection system that automated the burden of programmers writing engine UI code

Game Developer, *Deltablade2700*

Team of 11 - C | Custom Engine

2D local-multiplayer action platformer; Showcased in PAX2019 + PAX2020; Published on Steam

- Developed scene manager GUI that allowed programmers to change scenes anytime in-game
- Automated task management tool 'Airtable' to email programmers whenever task is updated
- Wrote automated test cases and checklist for visual effects to ensure build quality for milestones

PROFESSIONAL EXPERIENCE

Teaching Assistant for Game Project (GAM2XX), DigiPen

Provided technical mentorship to ~38 Sophomore game teams writing custom C++ engines

- Helped setup CI/CD GitHub systems for 2 teams that automated builds for every push
- Identified 7 common issues in teams, and created 8 slide decks that teaches game designers. artists, programmers, and audio designers on how to mitigate said issues

Head Teaching Assistant for Low-Level Programming (CS315), DigiPen

• Wrote Powershell scripts to guery Github to pull PR branch of the student's repository for grading

- Maintained GitHub Actions script that has graded 40+ students assignments over two semesters
- Wrote Python scripts that adjusted each GitHub Action to grade assignments appropriately
- Assisted 40+ 3rd year students with implementing memory debuggers in Linux and Windows

EDUCATION

B.S Computer Science in Real-Time Interactive Simulation

DigiPen Institute of Technology, Dean's List (x4)

01/2019 - 07/2019

08/2020 - 04/2021

08/2019 - 05/2020

08/2020 - present

08/2020 - 04/2021

08/2018 - 05/2022