KYLE NG

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SKILLS

Languages: C++, C#, C, Java, Swift, JavaScript

Engines/Libraries: Unity, Unreal Engine, SceneKit, Vuforia, Mixed Reality Toolkit, Raylib

Other: Git, Perforce, Github Actions, Jenkins, Android, iOS, CMake

GAME PROJECTS

Solarium
January – April 2024

Swift, iOS, SceneKit, Blender

- 3D puzzle-adventure game where players are tasked with repairing an ecological facility in a solarpunk environment.
- Engineered the game's architecture, integrating graphics, physics and other components for a cohesive and immersive gameplay environment.
- Scripted puzzle logic in Swift, integrating world entities and interactive elements to enhance gameplay immersion and challenge.
- Designed captivating puzzles aligned with the game's narrative to enhance player engagement.
- Developed and documented the production workflow of assets from Blender into SceneKit, streamlining content creation.

BoomBlocks
September – December 2023

Blueprints, Unreal Engine 5, Blender

- 3D physics-based demolition sandbox game where players play as a demolitionist and destroy buildings using a variety of tools.
- Implemented diverse tool functions based on user stories, enabling players to efficiently place, switch, rotate, and delete tools for optimal demolition strategy.
- Developed multiple physics-based tools, enriching gameplay with a wide range of destructive options.
- Conducted performance optimizations by analyzing performance traces and eliminating excess geometry, ensuring smooth gameplay across various platforms.

Super Monkey Bowling
September – December 2023

C++, Blueprints, Unreal Engine 5, Blender

- 3D third-person arcade bowling game inspired by the Super Monkey Ball franchise.
- Established a Jenkins environment, enabling continuous integration and development through automated builds and testing, fostering a streamlined development process.
- Implemented a workflow using Visual Studio and Unreal Engine, reducing scripting errors and optimizing the development pipeline for increased efficiency.

EXPERIENCE

T&T Supermarket
August 2021 – Present

General Service
Burnaby BC

- Responded to various customer inquiries with clear communication to ensure high levels of customer satisfaction.

EDUCATION

British Columbia Institute of Technology
Burnaby BC

Bachelors of Science, Applied Computer Science | CGPA: 94%
September 2023 – May 2025

Diploma, Computer Systems Technology | CGPA: 86%
April 2021 – May 2023