

DEVELOPER

SKILLS

Development

C# Java C/C++ Python

Ruby Swift Kotlin

PHP

MySQL TypeScript JavaScript CSS HTML

Applications

Unity
Rider
IntelliJ IDEA
CLion
WebStorm
RubyMine
Visual Studio
Unreal Engine
Godot Engine
Sketch
Figma

Frameworks

NodeJS Angular React Blazor Zenject

Services

Git / GitHub Amazon Web Services Google Cloud Platform Microsoft Azure

Other

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EDUCATION

Computer Science, BS

San Francisco State University

August 2016 - May 2020

3.53 GPA

SELECTED PROJECTS

Turn-based JRPG

In development

Working on a single-player Japanese-style role-playing game in Unity with cross-platform input support and data serialization for saving and loading. This project uses the Zenject framework for dependency injection to maintain cleaner code. Features RPG systems like inventory, crafting, quests, 4-character party, world map, saving and loading, etc. Graphics are powered by Unity's new Universal Render Pipeline with custom shaders such as toon-style.

Infection FPS

May 2020

Created a multiplayer first-person shooter game in Unity using the Mirror Networking API in a team of six programmers and two audio leads. Weapon system includes firing, reloading, switching, and aiming. New weapons can be picked up from the ground. Infected players are equipped with a melee weapon.

Self-Driving Car Pi

May 2020

Worked in a team of four to build and develop an autonomous self-driving robot car. The robot is powered by a Raspberry Pi using various motors and sensors to navigate an obstacle course. The sensors help the robot follow a black line and avoid obstacles within a certain distance.

Mecha Fighter VR

December 2019

Created a multiplayer VR fighting game in Unity using SteamVR SDK in a team of five. Combat system features gesture-based ability system and velocity-based hit detection. Networking is implemented using a custom server written in Java.

RPG Sandbox

September 2019

Developed top-down click to move and attack core combat system for RPG game in Unity using the NavMesh pathfinding system. Features core RPG elements like equipment, character stats, enemy AI, map navigation with portals, and more. Created high-fidelity shaders using Unity Shader Graph and Universal Render Pipeline.

BaySpace

August 2019

Worked on front-end, back-end, and Git management for a team of 8 as the GitHub admin. Our team exercised the software development process which includes iterative deployment, scrum meetings, and test-driven development. The web app is written in NodeJS and Bootstrap, uses MySQL database, and deployed on AWS using the Express framework. Users can submit posts, upload images, search posts, view map of locations, and register and sign-in.

Bomberman

May 2019

Developed a 4-player bomberman game in Java. Bombs use a simple algorithm to calculate explosion distances in 4 directions. The map is a tile-based grid is randomly generated. Custom maps can be created then loaded from file. Collisions are used for kicking bombs and solid interactions.

Tank Game

April 2019

Developed a 2-player top-down shooter tank game in Java that includes a collision detection system using the Visitor Pattern. Features include health UI, powerups, destructible walls, custom maps, and more.