

Taro Kumagai

Software Engineer

CONTACT INFORMATION

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PORTFOLIO

Portfolio: <https://www.tarokumagai.com/>

PROJECTS & WORK EXPERIENCE

Project

2023 - 2023

Custom NavMesh Generator

Unity Engine / DigiPen

- Made a Unity component that generates a 2D NavMesh that is able to identify walkable terrain and obstacles on meshes created in Unity
- Agents use A* Pathfinding with paths created from the NavMesh
- Created Debugging tools to trouble shoot and display the different aspects of the NavMesh such as what parts of the mesh are obstacle, which areas are walkable by agents, and the possible paths agents may take

Project

2022 - 2023

Grocery Gauntlet / 3D Split-Screen Party Game

UI Programmer / Unreal Engine 4 / Team Later Sk8ters / DigiPen

- Reconstructed UI Menus screens to be less buggy and easier to navigate
- Set up stat tracking for player gameplay so that they can be displayed at the end of each game

Project

2021 - 2022

Runes of Legacy / Top-down Action Dungeon Crawler

AI & Audio Programmer / Unity Engine / Team Phantom Forge / DigiPen

- Implementation of Enemy FSM behaviors introducing 5 different enemy behavior types
- Designed FSMs to be easily adjustable for Game Designers through Unity's Inspector tab allowing them to adjust things such as projectiles being shot, movement speed, animation speed, player detection range, etc.
- Collaborated with Audio Designer to implement audio features with Wwise

Project

2020 - 2021

Ironvale Grove / 2D Tug-of-War Strategy Game

Tech Lead / Custom C++ Engine / Team Knight Owls / DigiPen

- Worked with team to implement a custom C++ engine
- Collaborated with Audio Designer to implement audio features with FMOD API
- Implementation of game engine editor features with Dear ImGui
- Management and delegation of tech team tasks

Santa Clara, CA

2017 - 2019

Sales Engineer

Enplas Microtech Inc.

- Communicated between clients and engineering team in Japan on the development of microfluidic products
- Assisted in the production of microfluidic plastic prototypes
- Examination and troubleshooting of microfluidic plastic product

Sacramento, CA

2016 - 2017

Certificate Clerk / Rice Grader

Overseas Merchandise Inspection Company (OMIC)

- Issued certificates for crops that underwent successful GMO and Chemical Residue Testing
- Maintained samples and equipment in the office lab
- Prepared and shipped crop samples for GMO and Chemical Residue Testing
- Inspection of rice mills and grading of rice samples

EDUCATION

Redmond, WA

2019 - 2023

Computer Science & Game Design

DigiPen Institute of Technology

Santa Cruz CA

B.S. Chemistry

UC Santa Cruz

SKILLS

C++

C

Tortoise SVN

Unity

Dear ImGui

Wwise API

C#

Visual Studio

GitHub

Unreal 4

FMOD API