# Justin Bishay

Website Portfolio: <u>https://jkbishay.github.io</u> Phone: (808) 782-7438 **E**mail: <u>justinkb47@gmail.com</u>

# Education

University of Hawai'i at Mānoa

GPA: 4.00

University of Hawai'i at Mānoa

GPA: 3.80

Computer Science Masters August 2019 - Present

Computer Science Bachelors Received May 2019

# Skills

Programming Languages:

C, C++, C#, JavaScript, Python, Java, HTML/CSS, R

Toolsets/OS:

Windows 10, Mac OS X, Unix/Linux, Git/GitHub, Helix Visual Client (P4V)

Other Software/Tools:

Unity, Visual Studio, Visual Code, Node.js, Blender, Streamlabs/OBS

# Work

#### **Graduate Research Assistant**

Laboratory for Advanced Visualization Applications

- Manage and troubleshoot large multi panel display systems called CyberCANOEs
- Implemented cloud pixel streaming for data visualization applications (ex. ParaView)

### **Engineering Intern**

Bungie

- Coordinated with designers and other engineers to upgrade text chat systems
- Developed new features and helped launch Cross Play in Season 15 of Destiny 2

# **Undergraduate Research Assistant**

Laboratory for Advanced Visualization Applications

- Collaborated with others on augmented and virtual reality research projects
- Maintain augmented and virtual reality devices and large data visualization systems

# Extra Curricular

| Team Manager for Collegiate Esports Team                    | March 2020 - Current    |
|---|-------------------------|
| President of Game Dev Club                                  | January 2019 - May 2021 |
| Tournament Organizer for Official Super Smash Bros. Esports | March 2017 - Current    |

# May 2021 - August 2021

# August 2019 - Present

# n Season is of Destiny 2

January 2018 - August 2019

# **Projects**

#### **DynaCoVE**

#### January 2019 - Present

C++, C#, Javascript, Unity, Virtual/Augmented Reality, Data Visualization, Networking

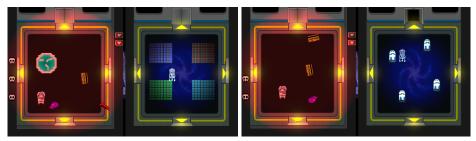
- Cloud-pixel streaming application for multiple devices including VR/AR
- Real time data visualization on large data sets between multiple remote sites

#### Lost and Found: In Space

#### January 2021

Unity, C#, Game Design

- Co-op action puzzle game where one player survives and the other searches for them
- Worked on a team of 2 programmers and 2 artists for Global Game Jam 2021
- https://globalgameiam.org/2021/games/lost-and-found-space-7



### **COVID-19 Global Hot Spots Map**

Javascript, HTML, CSS, Leaflet, Data Visualization

- Interactive map that shows new COVID-19 cases for each day along with totals •
- Includes time series charts and a slider to view map at previous dates •
- https://hotspotmap-coronavirus.github.io/

### **Evo Tank**

Artificial Intelligence, Evolutionary Computation, Unity, C#, Game Design

- Tank game where an AI controlled tank attempts to achieve the highest score •
- Runs an evolutionary algorithm to optimize the attributes of the tank •
- https://jkbishay.github.io/projects/evotank

#### S.P.I.E.S.

Virtual Reality, Networking, Unity, C#, Game Design

- Spy game where a player in virtual reality navigates a building and solves puzzles
- Remote player helps the spy by tracking the spy's position and building layout
- https://jkbishay.github.io/projects/spies



March 2020 - June 2020

October 2019 - December 2019

#### May 2020

#### August 2019 - September 2019

Virtual Reality, Unity, C#

• Virtual reality horror experience where users physically walk down a scary hallway

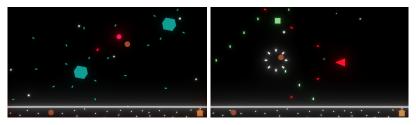
#### We, the One

**Keller's Hall** 

#### January 2019

Unity, C#, Game Design

- Short 2D bullet hell style game made for Global Game Jam 2019
- <u>https://jkbishay.github.io/projects/wetheone</u>



#### **Olympic History Visualization**

#### October 2018 - December 2018

Javascript, HTML, Data Visualization

- Webpage that visualizes the results of the winter and summer olympics history
- Users can query data by country, sport, and gender

#### **RUNba CRUSH**

#### July 2018 - November 2018

Unity, C#, Blender, 3D Modeling, Game Design

• Base defense game with touch controls that supports up to 4-player co-op



#### HoloRacer

#### June 2018 - October 2018

Augmented Reality, Unity, C#, Blender, 3D Modeling, Game Design

- An application to create a race track and drive around cars in user's environment
- Race against AI cars that can be guided with waypoint markers
- <u>https://jkbishay.github.io/projects/holoracer</u>

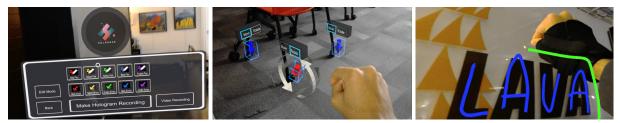


#### HoloSage

#### January 2018 - October 2018

Augmented Reality, Unity, C#

- Annotation and training application that can create and play back holographic annotations as recordings with sound; recordings can also be saved and loaded
- https://jkbishay.github.io/projects/holosage



#### 1854 Cholera Outbreak in London

Javascript, HTML, Data Visualization

- Webpage that visualizes the data of the 1854 cholera outbreak in London with interactive charts and maps
- <u>https://jkbishay.github.io/hidden/dataviz/cholera/</u>

#### Turretz

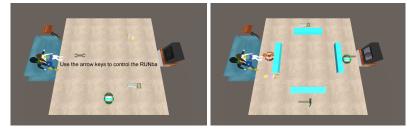
Augmented Reality, Networking, Unity, C#, Game Design

- Tower defense game where the player's environment is the battlefield
- Networking is used to play cooperatively from mobile devices
- Game was awarded the first place prize for Best Gaming/Entertainment App of \$1000

#### **RUNba RUSH**

Unity, C#, Game Design

- Short indie puzzle game where the player controls multiple RUNbas (Roombas)
- Must clean up hazards before a toddler eats them
- Community award for Dramatically Diverse in Global Game Jam 2018
- <u>https://jkbishay.github.io/projects/runbarush</u>



#### September 2018

#### March 2018

January 2018

#### Playto

#### September 2017 - December 2017

Unity, C#, Game Design

- 2D puzzle platformer game where the player plays as a piece of playdoh
- Playdoh can morph between three forms each with different capabilities
- <u>https://dreamingbento.github.io/</u>



#### Super Circle Joe

#### January 2017 - April 2017

Java, Game Design

- A 2D bullet hell style arcade shooter where the player plays as a circle
- Defeat endless waves of enemies by changing the color of attacks
- <u>https://jkbishay.github.io/projects/supercirclejoe</u>

