

# SAI RUTHVIK THANDAYAM

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Eligible to work in the US | Open to relocation | Santa Clara, CA, 95054

## EDUCATION

University of California, Santa Cruz | Santa Cruz, CA

MARCH 2020

MS (Professional) Games and Playable Media

GPA: 3.97/4

Birla Institute of Technology and Science (BITS) | Pilani, India

May 2017

BE (Honors) Electronics Engineering

## SKILLS

**Languages:** C++, C#, C, Java, Python, HTML, CSS, JavaScript

**Softwares:** Unity3d, UE4, Photon, Android Studio, XCode, ARCore, ARKit, Unity Networking

**Tools:** Oculus Rift, HTC Vive, Oculus Go, Arduino, Raspberry Pi, Google Cardboard, Leap Motion

## PROFESSIONAL EXPERIENCE

### Games for Love

San Francisco Bay Area

Gameplay Programmer

MAY 2020 - Present

- Prototyping gameplay mechanics and exploring creative ideas with an absolute focus on quality, player experience
- Designing, developing and testing highly accessible gameplay features with other programmers, designers and artists
- Troubleshooting gameplay related issues throughout the team
- **Language: C#, Game Engine: Unity, Platform: Oculus Quest, Oculus Rift, HTC Vive**

### University of California, Santa Cruz

San Francisco Bay Area

Technical Director(Gameplay Programmer)

SEP 2019 - Present

- **PROJECT: Truants(team of 4)** - A 2D narrative digital digital voyeur simulator puzzle game.
- Developed two fake OS emulations with apps like YeeMeow(email), videos/photos, browser, xploit(hacking tool), file browser and web apps like Visage(facebook), Bouquet(Instagram).
- **Language: C#, Game Engine: Unity**

### Cognitive Neuroscience Lab

BITS Pilani, India

Research Assistant (Augmented Reality, IoT, BCI)

MAY 2017 - FEB 2018

- **PROJECT: Home Automation using BCI and AR(team of 3)**
- Developed an **augmented reality android app in Unity3d** that receives EEG signals and Implemented a wireless transmission(WiFi) of data from App to an **Arduino** connected to an appliance.
- **Language: C#**

## PROJECTS

### VR Projects

UCSC Grad Projects

- Developed **VR MiniGolf**, in a team of 2. Worked as a **Technical Director**, implemented networking using photon unity and added scoring and leaderboard mechanism. Also implemented multiplayer VR UI interaction. This game was developed for Oculus Go platform for Alcove VR Competition. Mar 2020 - May 2020
- Developed **Spellcasters VR**, in a team of 5. worked as a **Technical Director** on the adding of gestures using AirSig Gesture Recognition tool to cast different spells to either attack or defend. Mar 2019 - Present
- **Tools used: C#, Unity3d, Oculus Rift, HTC Vive, Oculus Go**

### AR Multiplayer

UCSC Grad Project

- A proof of concept of AR mulitplayer developed using Unity 3D(Unity Networking) and ARCore Cloud Anchor system..
- Implemented matchmaking, raycast physics, scoreboard etc. using Unity Networking and used google cloud to store and retrieve the point cloud data for AR system
- **Tools used: C#, Unity, Unity Networking, ARCore**

### Multiplayer Ninja Race

UCSC Grad Project

- Implemented the multiplayer using PUN services and developed the project in Unity
- Scripted the attack and movement of players, leader-board, start game and waiting room lobby matchmaking system and added sound for the project.
- **Tools used: C#, Unity, PUN 2**

### Grandma's Last Hope

GMTK Game Jam 2019(2-day)

- Concept inspired by Indiana Jones and the new F&F Movie(Hobbs and Shaw). Worked in a team of 2.
- Scripted the rope mechanics of Grandma, grandma's movements and physics with the environment, win/lose level states
- **Tools used: C#, Unity**

## POSITION OF RESPONSIBILITY/WORK EXPERIENCE

- Graduate Teaching Assistant for Game Design Studio I(ARTG 170), II(ARTG 171), Walt Disney(THEA 80N), History of Digital Games(ARTG 80H) and Software Development of Portable devices course. Jan 2019 - Mar 2020