Sanjay Salem

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Education —

Carnegie Mellon University

Bachelor of Computer Science and Art Minors in Animation & Special Effects and Game

Aug 2018 - May 2022 QPA: 3.3

Skills —

Programming: C/C++, Java, Python, Javascript, jQuery, HTML/CSS Design: ProCreate, Blender, Maya, Hitfilm Express, Adobe Premiere Languages: English, Spanish, Conversational Japanese, Tamil Areas of Interest: 3D Animation. Computer Graphics, AR/VR

Extra-Curriculars -

Game Creation Society (GCS)

- Form groups and create a playable game within 3-4 months
- Requires teamwork, collaboration, communication, and knowledge of all 3 fields (music, art, programming) to make sure game elements are compatible

Artists Alley Club (AAC)

- Sell fan art at local comic and anime conventions nearby the Pittsburgh area
- Form a community with other local artists to receive and give feedback about each others' artwork

Japanese Student Association

- Organize events centered around Japanese culture, such as excursions and movies
- Spread awareness of traditional & modern Japanese culture throughout the Pittsburgh community

Project Experience

Oct - Dec '20 **UI/UX Interface & Effects Functionality**

A collaborative audio editing web application, with support for multiple tracks, music effects, upload/download, and track rearrangement.

- Added HTML/CSS for cleaner UI, built in track rearrangement and audio draggability, and helped with converting effects and working on Django models.
- · Built with Django, tuna.js, Sortable.js, and jQuery

Sep '20 ChatBot & Web Scraping

Personal Project

♀ CMU

Custom gaming Discord chatbot which responds and reacts to user messages, and performs web scrapes upon requests for gamerelated and player-related data.

- Wrote bot from scratch with the Discord.py library, added web scraping functionality, and deployed to Heroku for continual running and use.
- Built with Discord.py, Pycharm, and Selenium WebDriver

Dec '19 **Human Pose Tracking & Augmented Reality (AR)** A program which displays an animated figure and plays its theme music once the user strikes a certain pose.

- Modeled and rigged 3D character figure and helped integrate it with an AR pose tracker.
- Built with Blender, Maya, p5.js, & PoseNet

Nov '19 **Machine Learning & Hand Tracking**

♀ CMU

A recode of Space Invaders which uses hand tracking and gestures as controller movement and shooting input.

- Modified feature extraction software and helped with UI development.
- Built with p5.js, ml5.js, & open source Space Invaders code

Mar '19 3D Modeling and Augmented Reality (AR) An AR mobile app that displays device information in AR upon scanning a specific device. Awarded 3rd place at SteelHacks 2019, hosted by the University of Pittsburgh.

- Integrated Vuforia Augmented Reality image database and modeled 3D elements for UI.
- · Built with Firebase, Node.js, Unity Engine, Vuforia AR, & Blender

Work Experience

Aug'20 – now Teaching Assistant, Course 15-210 **♀** CMU School of Computer Science Parallel & Sequential Data Structures/Algorithms

· Assisted with course logistics and planning, led and prepared recitations, held office hours to answer student questions, wrote grading scripts for exams, homework & labs, and facilitated students' learning.

May'15 – now Freelance Graphic Designer/Game Artist

Freelance

 Designed logos and 2D/3D game assets for various projects & organizations. Involved customer engagement, graphic design & illustration, 3D animation/modeling experience, communication, and marketing.

Relevant Coursework

Comput. for Creative Practice Real-Time Animation **Character Rigging**

Web App Development Animation Art & Technology **Computer Graphics**