Brandon Michael Makin

BrandonMakin.com - (949) 505-2915 - howdy@BrandonMakin.com

Education

2016 - Present Chapman University

B.S. Software Engineering 2020 with Minor in Game Development Programming

Schmid College of Science and Technology

Chapman University Provost List - 3.89 GPA

Paid Work Experience

Google Summer of Code 2018 - Godot Game Engine

2018

- Planned, proposed, and implemented WebRTC into the open source Godot Engine for fast multiplayer networking in web browsers and for peer-to-peer networking via NAT traversal
- Extended the engine in C++ to allow WebRTC to be accessed via Godot's high- and low-level multiplayer networking APIs for easy use within the engine

VR Sensory Research, Team Lead - Chapman University with Dr. LouAnne Boyd

2018 - Present

- Creating a virtual reality environment designed to comfort a neurodiverse set of children playing individually or in a group
- Developed in Unity 3D, with Photon Unity Networking and VRTK.
- Leading a team of 4 software engineering students, alongside 4 other teams in an agile environment
- Mentored by Dr. Boyd, whose background is in informatics, UX, developmental psychology
- Presented the team's research at INSAR (International Society for Autism Research) conference in Montreal

May 2019

Special Skills& Education

- Java, C#, C++, Python
- JavaScript, HTML5, CSS, Node.js, WebSocket, WebRTC
- Amazon Web Services (AWS) EC2, S3, Cloudfront
- Cybersecurity CPSC 370
- Operating systems internals, Linux IPC, parallelism and thread-safety (semaphores, mutexes, locks)
- Human Computer Interaction and UX design, Designing for Disability
- Software and Requirements Design, UML Diagramming
 - Taking a project through several prototyping phases: defining software requirements, creating wireframes, and testing with user
- Data Structures, Algorithmic Analysis, Discrete Mathematics, Linear Algebra, Differential Equations, Statistics & Probability
- Game Development: Unity Engine, Godot Engine, 3DS Max, Blender 3D
- Traditional Art, 2D and 3D Digital Art
- Music composition, Music technology, Voice, Drums, Logic Pro X, Ableton, Pure Data
- Microsoft Office Suite, Google Drive G Suite
- Git VCS

Projects & Extracurriculars

Project Lead [Producer, Programmer] - Capstone Project for Minor in Game Development Programming

2018 - Present

- Leading a team of 6 students: 4 programmers, 2 artists
- Multiplayer underwater racing game developed a system to use phone motion to steer your swordfish
- Awarded Best Engineered Game at Panther Games Showcase; awarded Special Mention: Technical Merit at IEEE GameSig

Panther Games (Chapman University Game Development Club)

External Relations Coordinator

Event Coordinator

2018 - Present

2019 - Present

- Represent Chapman for SGDA, the Student Game Developers Association
- Coordinate events with other schools and speakers from the video game industry
- Coordinate all Panther Games biweekly events, including Winter and Spring Showcase

4 Other Game Projects (3 done as a team) - for more information, see BrandonMakin.com/games

Additional Events & Awards

Global Game Jam 2017, 2018, 2019

Data Fest - Awarded Best Use of Outside Data. Invited to American Statistical Association

April 2017 May 2019

INSAR (International Society for Autism Research) conference in Montreal. Represented VRSensory (see Paid Work Experience)