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## WORK EXPERIENCE

#### Senior Interactives Engineer | Brilliant.org | August 2020 - present

I work on the Interactives team, building interactive content to teach STEM subjects, using Elm.

- implemented interactive content using Elm
- designed Elm-based APIs for use by course authors
- implemented features for course authoring infrastructure

#### Senior Software Engineer | Ubiquity6 | May 2019 - July 2020

I worked on a team building games and interactive experiences using the Display.land ecosystem.

- · served as the tech lead on an upcoming game project
- implemented features for a photogrammetry-based social networking app using React
- built gameplay features using a ECS based game engine using JS and typescript
- · implemented backend features using node, express, and dynamoDB
- built art prep tools using Blender and Python, as well as with JS and our custom tech
- implemented discord integration with a web-based 3d game

#### Staff Engineer | Lumos Labs | November 2017 - May 2019

I served as a Staff Engineer on the games team, which is responsible for making cognitive training games.

- Worked on a variety of game features using C# and JS, using Unity and Cocos Creator
- prototyped numerous game ideas (mainly JS / canvas)
- developed and open-sourced a lightweight JS-based game engine for rapid prototyping (stirling.js)
- · developed content pipeline tools using Python and JS

#### Software Engineer | Google | October 2016 - November 2017

I worked as a web developer on real-time chat applications, including both Hangouts and Hangouts Chat. I built features and fixed bugs using a variety of javascript and java as well as a range of Google technologies.

#### Founder/President | Jamwix | May 2013 - July 2016

Cofounder / president of Jamwix, a media startup focused on making high-quality games and experiences based on creativity and playfulness.

- Designed client architecture for CineMagic: Hollywood Madness, a match-three/collectible card game mashup for iOS and Android
- Implemented game systems using Haxe / OpenFL
- Created art pipeline tools in Python and Javascript to prep art assets for CineMagic
- Implemented UI for the first feature-length film released for virtual reality (Banshee Chapter: Oculus Rift Edition, Halloween 2014) using C++ / SDL
- Implemented parody versions of Reddit, Youtube, Imgur, and the Huffington Post as part of the "Reddit3016", a satirical look at what the internet might look like in 3016 (http://reddit3016.com/).
- Created a demo (using Unreal) of a virtual reality content aggregation system which was shown as part of the VR Village at SIGGRAPH 2016

#### Lead Gameplay Engineer | KIXEYE | August 2011-May 2013

I joined KIXEYE just before War Commander launched, and helped to grow it into a top-rated strategy game on Facebook with 100k daily active users.

- · Managed a team of 9 client developers
- Provided technical designs for numerous game systems
- Implemented numerous game systems spanning all aspects of the game using AS3 and C++
- · Released new features and bug fixes on a two-week release schedule
- · Worked with server teams to add a persistent world map to the game post-launch
- Worked with server teams to add synchronous PvP combat to the game post-launch

#### Senior Software Engineer | Cull.tv | January 2011-June 2011

Worked on both front-end (JS, jQuery) and back-end (PHP, MySQL, Node.js) development for Cull, a social video site.

- Used the Facebook API to create a channel of videos from videos posted by people in your social network
- Implemented a system to collect feedback from users on new features
- Implemented playback controls and user interface elements using JS / jQuery

### **ABOUT**

I'm a highly skilled generalist, at my best when working with others to deliver amazing experiences.

## **PUBLICATIONS**

#### Maya Programming with Python Cookbook

PACKT Publishing, July 2016

## SKILLS

Gameplay Engineering, Javascript, Elm, Node.js, ThreeJS, WebGL, Python, Lua, Unreal, Unity, Mentorship, Game Design

## **EDUCATION**

#### MFA Arts, Computation, Engineering

University of California, Irvine. 2003-2005

# BFA, Time-based and Electronic Media

Carnegie Mellon University, 1997-2001 Served as a TA for Randy Pausch's "Building Virtual Worlds" class

#### Senior Software Engineer, Playstation Home | Sony Computer

Entertainment, America | September 2008-January 2011

I was a member of the PlayStation Home Product Development team, which was responsible for creating levels, games, and virtual items for PlayStation Home.

- Designed a wide range of games and interactive experiences
- Implemented a wide range games using Lua and the Home SDK
- Designed a large-scale system to support rapid deployment of gameplay elements
- Designed a system to allow non-engineers to quickly and easily author narrative-based gameplay in Home
- Designed one of the most highly-trafficked levels in Home (the Playground)

#### Software Developer | Millions of Us | January 2008-June 2008

I served in the engineering department of a small agency specializing in created branded experiences in virtual worlds and new media

- Created interactive experiences in several different platforms, including web-based ARGs and consoles
- Implemented arcade games and interactive objects in Playstation Home using Lua
- Designed and implemented (in Flash) the final puzzle for the Terminator: Dark Discovery ARG (official Honoree, 2009 Webby awards)

#### Web Developer | Linden Lab | November 2006-January 2008

I worked as a web developer in the Creative Services team.

- Developed numerous internal web applications to make company processes more efficient and easier/more pleasant to use
- · Personally responsible for significant components of internal infrastructure

## Instructor | Academy of Art University | January 2003-May 2007, February 2010-December 2011, January-May 2016

I've worked at AAU as an instructor in the 3d animation, New Media, and Game Programming departments, teaching both undergrads and graduate students.

- Taught classes in game programming with C++
- Taught classes on web technologies (JS, MySQL, PHP, HTML, CSS)
- · Taught classes on various aspects of Maya and MEL scripting
- · Created materials for online classes
- · Served as an advisor for master's degree students

#### Virtual World Developer | Eldervision | May 1999-January 2001

Created objects, environments, and animations both pre-rendered and real-time, for use in an 3d internet application for the elderly.