

Thomas Bouffard

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wyzwon.github.io

OBJECTIVE: I am a motivated RIT graduate seeking to apply my enthusiasm, knowledge, and programming skills in C#, Javascript, and HTML to challenging and productive projects in a software engineering role.

EDUCATION

Rochester Institute of Technology (RIT), Rochester, NY

December 2017

Bachelor of Science, Game Design and Development; Minor in Psychology

GPA: 2.93

Noteworthy Courses: Data Structures and Algorithms I-2, Level Design, Casual Game Development

SKILLS

Programming Languages: C#, C++, Java, JavaScript, HTML, CSS, Extendscript

Tools: Visual Studio 2015, Unity, Photoshop CC, Maya, Mudbox, Git, Node.JS, Socket.io, Wordpress, Blender

INDIE DEVELOPMENT

- **Online Multiplayer Particle Simulator** Colchester, VT Oct 2017 - Apr 2020
 - Built from scratch in HTML, CSS, and Javascript
 - Created an online multiplayer browser based sandbox in which players draw elements to the scene which are guided by cellular automaton rules to interact in dynamic and interesting ways.
 - The Backend is programmed in Node.js, and is tasked with calculating particle interactions and relaying changes to clients via Socket.io. Project is hosted on Heroku and maintained with Git.
 - Designed the frontend to run in browser in a Canvas element dynamically sized to fit the window.
 - Incorporated touch interactions including two finger pan and zoom gestures, a custom solution to rendering the tile scene to prevent anti-alias artifacts, and options for scene presets.
 - Project Demonstration link: particlesim-6c2c625d7c8e.herokuapp.com
- **Web Virtual Reality Online Multiplayer 3D Chess** Colchester, VT Sep 2019 - present
 - Written in Javascript using the A-Frame framework and the underlying THREE.js library
 - ChessCubed is a chess board I extrapolated into three dimensional space. Used A-Frame to display the game in a web browser or VR headset, and Socket.io + Node.js for real time multiplayer interaction. Observable in browser, playable in webXR supported device.
 - Project Demonstration link: chesscubed-c5f6544426fc.herokuapp.com
- **Website**
 - Built from scratch in HTML and CSS
 - website link: wyzwon.github.io

WORK EXPERIENCE

- **Subatomic Digital - Automation Programmer** Williston, VT June 2016 – Nov 2017
 - Developed programs that automate the process of producing PSD/INDD files used in the production of customized books. Programs written in Extendscript, custom content imported from XML files.
 - Worked with the production team to develop an automated system that would comply with the needs of each station in the production process.
- **Aquatec Website - freelance web developer** Colchester, VT Aug – Nov 2018
 - Built Aquatec website to provide the company with an online presence for the purpose of attracting new business.
 - Gathered user requirements, implemented content, and trained staff how to maintain and update moving forward.

ACTIVITIES:

RIT Metal Works club: *Vice President*

An RIT school club dedicated to crafting and teaching the art of weaving chainmaille.