Thomas Bouffard

(802) 734-3495 | bouffthomas@gmail.com
www.Bouffard.org

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 - present
  - 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.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. Currently observable in browser and playable with FireFox + HTC Vive
  - Project Demonstration link: chesscubed.herokuapp.com
- **Website**
  - Built from scratch in HTML and CSS
  - website link: www.Bouffard.org

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.