Thomas Cantwell, Software Engineer

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thomascantwell.com | Github | Blog

TECHNICAL SKILLS

JavaScript | React | Redux | Node.js | Ruby | Rails | Rspec | SQL | C++ | HTML | CSS | Photoshop

TECHNICAL PROJECTS

Pixel V - https://pixelvee.netlify.app/ | Github
Advanced pixel art drawing app.
● Built functionality around actions which are reversible with an undo/redo stack.
● Made an HSL (Hue, Saturation, Lightness) color picker from scratch for intuitive color selection.
● Implemented tool for creating bezier curves using Bresenham's Algorithm.
● Tech Stack: JavaScript, HTML, CSS

A* Pathfinding Visualizer - https://astarpathfinder.netlify.app/ | Github
Pathfinding visualizer to show how A* algorithm works with customizable options to enable free experimentation.
● Implemented a custom map-drawing method and random maze generators using several algorithms.
● Built several types of calculation methods so users can see how they affect the efficiency and nature of the path.
● Designed interface for changing settings to make the program easy to use.
● Tech Stack: JavaScript, HTML, CSS

PixTile - https://www.pix-tile.com/ | Github | Demo
Drawing app to facilitate the design of repeating patterns, applicable to game and textile design.
● Minimized the time complexity of the method for replacing existing colors in the user's design.
● Stored pixel information in hashes to enable more efficient color mapping.
● Created a synchronized 9-grid interface on HTML Canvas that facilitates drawing repeating patterns.
● Implemented user authentication and authorization.
● Tech Stack: React, Redux, Rails, PostgreSQL, Active Record, HTML, CSS

Snail Racing - Snail Racing App | Github | Demo
An interactive app for creating, racing, and betting on snails.
● Designed a custom character creation feature to allow users to create their own snails.
● Created a dynamic race animation based on snails' attributes to ensure race results are always different.
● Implemented user authentication and authorization to allow users to save bets to the database and view winnings.
● Tech Stack: Rails, PostgreSQL, Active Record, HTML, CSS

EXPERIENCE

READY-SET-WEAR, LLC - Founder, Co-owner   New York, NY
Online resale business specializing in selling designer handbags and clothing   07/2015 - 03/2020
through merchant sites such as ebay and tradesy.
● Photographed and listed inventory.
● Responsible for all things customer service related including maneuvering through the bureaucracy of ebay, paypal, and the postal service.
● Handled public relations issues such as ensuring that the reputation of the business is protected and reducing liability from lost or stolen items.

EDUCATION

Flatiron School   New York, NY
Full Stack Web Development, Ruby on Rails and JavaScript program   01/ 2020 - 05/2020

Foothill College   Los Altos Hills, CA
Took supplemental courses in math and science   01/2012-06/2013

University of California, Irvine   Irvine, CA
Bachelor of Arts in Studio Art   06/ 2010