

Thomas Cantwell

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Portfolio: <https://www.thomascantwell.com/> | Github: [Tororoi](#) | Blog: <https://medium.com/@cantwell.tom>

PROFILE

Software Engineer and adventurer with a love of art and nature and a passion for learning. Experienced in React, Redux, and Ruby on Rails with an education in Art. Enjoys problem-solving, learning, and working collaboratively to build programs that enable others to unleash their creativity.

TECHNICAL SKILLS

Ruby, Rails, Javascript, React, Redux, SQL, HTML, CSS, Photoshop, Lightroom

TECHNICAL PROJECTS

A* Pathfinding Visualizer - <https://dreamy-cori-d15ae3.netlify.app/> | [Github](#)

Pathfinding visualizer to see how A* algorithm works step by step.

(Built with JavaScript)

- Implemented a custom map drawing method to allow users to try the algorithm with any maze they can imagine.
- 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.
- Built several random maze generators using different algorithms to make it easy to try pathfinding in mazes..

PixTile - <https://www.pix-tile.com/> | [Github](#) | [Demo](#)

Drawing app designed to help people make repeating patterns, whether for repeating textures in games, textile design, or for helping those with artist's block. (Front-end built using React and Redux. Back-end built with Rails)

- Implemented user authentication and authorization to allow users to save their images to the database.
- Designed a color replacement method by creating an offscreen canvas with a minimum size version of the user's image and iterating over that, enabling users to replace colors on the fly.
- Stored pixel information in hashes to enable more efficient color mapping, allowing user to select much larger sizes for their designs.
- Created a 9-grid interface for drawing that facilitates ease of making repeatable patterns.

Snail Racing - <https://cryptic-badlands-26813.herokuapp.com/> | [Github](#) | [Demo](#)

An interactive app for creating, racing, and betting on snails. (Built entirely with Rails, no javascript.)

- Designed a custom character creation feature to allow users to create their own snails.
- Created an algorithm for dynamic race animation based on snails' attributes to ensure race results are always different and provide unique user experiences.
- Implemented user authentication and authorization to allow users to save their bets to the database and view their winnings.

EXPERIENCE

READY-SET-WEAR, LLC - Co-owner

Online resale business specializing in selling designer handbags and clothing through merchant sites such as ebay and tradesy.

New York, NY
07/2015 - Present

- 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

Full Stack Web Development, Ruby on Rails and JavaScript program

New York, NY
01/ 2020 - 05/2020

Foothill College

Took supplemental courses in math and science

Los Altos Hills, CA
01/2012-06/2013

University of California, Irvine

Bachelor of Arts in Studio Art

Irvine, CA
06/ 2010