CAMERON COUCH

P: (860) 817-2397   cameronhcouch@gmail.com   www.cameroncouch.me   LinkedIn   Github

SKILLS   React, Redux, JavaScript, Node, Express, MongoDB, Ruby, Rails, AWS, SQL, HTML/CSS, Git, OOP, TDD

PROJECTS

Stack | *(React/Redux, Rails 5, ActionCable/Websockets, HTML5, CSS3)*   **live** | **github**
Pixel-perfect clone of the single-page workplace messaging app, Slack
- Implemented live chat using the WebSocket API via Rails' Action Cable, enabling real-time messaging
- Built modals with React-Redux and CSS3 for optional rendering of site forms and sidebars to improve user experience when creating and editing chat channels
- Applied Rails' polymorphic associations to user subscriptions to channels and workspaces to DRY code

Zoo Dots | *(JavaScript, HTML5, CSS3)*   **live** | **github**
Two Dots-inspired puzzle game built using Object Oriented Programming (OOP) principles
- Rendered HTML Canvas elements using JavaScript to track game piece positions and identities in a two-dimensional grid
- Wrote logic and customized algorithms for game piece selection and removal, allowing players to click-and-drag to choose matching pieces, and refactored code to optimize time complexity

Boy and Tiger | *(React/Redux, Express, MongoDB Atlas, Node.js, WebSockets)*   work in progress | **github**
Community-focused comic-viewing website
- Implemented user authentication following the jwt-passport strategy, allowing logged-in users to like comics, write comments, and participate in live-chat
- Enabled users to create, edit, and delete comments for comics, enabling members to discuss their favorite strips
- Created live chat room via the Websocket API, so members and guests can connect in real-time

EXPERIENCE

VP of Marketing
Infinity Woven Products   Sep 2015 - Dec 2016
- Headed company site redesign, emphasizing Search Engine Optimization, improved user experience, and better stats tracking via Google Analytics
- Set-up Google AdWords for paid search, geo-targeting marine professionals, increasing daily site traffic by +25% during industry events
- Built and managed an annual marketing budget of over $500,000 for a multimillion-dollar marine supplier
- Designed booth displays and coordinated shipping, labor, and housing for seven trade shows

Neuroscience Research Technician
Harvard Medical School   Jun 2013 - Aug 2015
- Designed and carried out experiments to study activity-dependent gene transcription in a mouse model, contributing to three published research papers
- Generated tissue samples and maintained cell cultures, analyzed and quantified images, compiled data, and presented findings in weekly meetings
- Bred and maintained populations of more than five mouse breeds, enabling cross-breed comparisons

Instructor and Course Creator -- From Fact to Fiction to Fantasy: Writing About Science
Wesleyan University   Fall 2012
- Crafted syllabus, planned lessons, and co-taught a workshop-style, student-run creative writing course

EDUCATION

Wesleyan University - *2009-2013* - BA Neuroscience and English, Writing Certificate
App Academy - *2019* - Rigorous 1000-hour full-stack web development intensive with <3% acceptance rate.
Topics covered: Ruby, Rails, TDD JavaScript, React.js, Redux, SQL, algorithms, and programming best practices.