

# CAMERON COUCH

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[LinkedIn](#)

[Github](#)

**SKILLS** React, Redux, JavaScript, Node, Express, MongoDB, Ruby on Rails, 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, 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.