
KYLE SMITH

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Find me on:

- [github](#)
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Projects

Virtual Piano (Flux, React.js, Rails) | [live](#) | [repository](#)

Garage Band-esque keyboard in the browser.

- Follows the flux design pattern where document.keydown/keyup events trigger a dispatcher emit to a Key Store which plays notes and renders the view.
- React Key components hold prop.noteName, which maps to both a frequency value to create a Web API AudioContext oscillator, and a CSS position for its visual representation.
- Record and save tracks to the database, represented by JSON objects mapping a timestamp to keys being played.

Kyllo (Rails, Backbone) | [live](#) | [repository](#)

Rebuilt Fog Creek's project management app, Trello.

- Single-page Backbone app consuming RESTful Rails JSON API.
- Uses Thoughtbot's recommended Backbone-on-Rails design patterns.
- Implements a custom CompositeView class so that data can easily be shared across parallel views.

Big Tac Toe (JavaScript, jQuery) | [live](#) | [repository](#)

Tic Tac Toe variation with nontrivial strategy.

- My take on an advanced extension to classic Tic Tac Toe. I stumbled upon the rules a few years back, and decided to build an online version.
- Builds an object-oriented game of Big Tac Toe, binds it to a board representation in the DOM, and uses jQuery events to play.
- Defines super classes of both Game and Board objects, which define methods for both the small and large versions of each to keep code DRY.

Battleship (JavaScript, Node) | [live](#) | [repository](#)

Classic two-player, cross-network Battleship.

- Client side JavaScript communicates with a Node server using the Socket.io library for real-time feedback from an opponent from anywhere in the world.
- Defines a game server, and starts a game once two players are connected, then allows ship placement, and gameplay on the end of placement event.
- Includes UI elements such as messaging capabilities and feedback animations.

Skills

JavaScript, Ruby, Rails, jQuery, Backbone, Flux, React.js, HTML/CSS, SQL, Node, Git

Education

App Academy, San Francisco — Web Development, Fall 2014

- Completed intensive web development bootcamp with <5% acceptance rate.

University of California, Santa Barbara — B.S. Mathematical Science, 2013

- Curriculum highlights: CS Problem Solving, Numerical Analysis, Advanced Linear Algebra, Probability and Statistics, Combinatorics.
 - Graduated after the Summer session in September, then spent the winter as a ski instructor in South Lake Tahoe.
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