Michael Boan

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Projects

Faceplant – Full-Stack Developer (React/Redux, Rails, jQuery, PostgreSQL)   *live* | *github*
A single-page web application inspired by Facebook
- Leveraged the Flux architecture to simplify data flow of the web app, allowing the DOM to be more easily manipulated programmatically in response to user input.
- Wrote custom SQL queries to provide individualized user experiences through custom timeline posts and allow for scalability through infinite scroll feature on newsfeed and timeline

BattleTetris – Front-End Developer (JavaScript, jQuery)   *live* | *github*
A multiplayer version of classic Tetris - clear lines to sabotage your opponent
- Developed bit-level operations to control game board logic
- Implemented Observer design pattern to allow boards to communicate while maintaining code DRYness and modularity.

$cent – JS Developer(JavaScript)   *live* | *github*
A lightweight library for manipulating the DOM in real-time based on user input
- Developed library providing users a convenient syntax for making HTTP requests to a server
- Built loaded HTML elements which allow users to modify the DOM in real time using vanilla JS

Skills

Ruby   Rails   RSpec   JavaScript   jQuery   React.js

Flux   SQL   Git   HTML   CSS   Java

Education

APP ACADEMY   *Aug. 2016 – Nov. 2016*
- Intensive 1000-hour full-stack web development course, acceptance rate <5%
- Curriculum includes: Rails, SQL, JS, React, design patterns, TDD, scalability, algorithms, OOP, and programming best practices.

ED.M., PHYSICS EDUCATION   *Jan. 2013 – May 2015*
Rutgers, the State University of New Jersey, School of Engineering, New Brunswick, NJ
- Recipient of Nancy Higginson Dorr Award, honoring graduates who show promise of being exceptional teachers.

B.S., ELECTRICAL & COMPUTER ENGINEERING   *Sept. 2010 – May 2014*
Rutgers, the State University of New Jersey, School of Engineering, New Brunswick, NJ
- Curriculum Highlights: Computer Architecture & Assembly Language w/ Lab component, Programming Methodology w/ Lab, Algorithms (Princeton MOOC self-study)

Work Experience

Physics Teacher, 9th – 12th Grade   *Sept. 2014 – May 2016*
North Arlington High School, North Arlington, NJ
- Nominated for NJDoE Distinguished Student Teacher Award
- Collaborated with administration and math teachers to improve district standardized test scores by 14% through implementation of Physics Union Math curriculum.