Michael Boan

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Work Experience

Instructor & Full-Stack Web Developer   *Dec. 2016 – Present*
App Academy
- Developed Ruby on Rails and React/Redux web apps to assist in tracking student progress
- Led and implemented revamp of front-end Redux architecture for internal tools
- Expanded student nightly report tool to allow for notifications of Code of Conduct violations
- Managed team of 8 "Hackers in Residence"
- Delivered lectures to cohorts of ~60 students, communicating computer science and web development core concepts and best practices. Topics Include Ruby, Rails, SQL, JS, jQuery, and React/Redux

Head Jumpstart Instructor   *Nov. 2016 – Dec. 2016*
App Academy
- Oversaw and led 4 instructors and 50 students, ensuring unified educational experience

Physics Teacher, 9th – 12th Grade   *Sept. 2014 – May 2016*
North Arlington High School, North Arlington, NJ
- Nominated for NJDoE Distinguished Student Teacher Award

Personal Projects

Faceplant – Full-Stack Developer (React/Redux, Rails, jQuery, PostgreSQL)   *live* | *github*
A single-page web application inspired by Facebook
- Leveraged metaprogramming tools to implement DRY, usable friending feature
- Designed and maintained normalized Redux state to promote maintainability
- United polymorphic associations, recursive selection and rendering, and reusable component principles to implement infinitely-nested comments

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

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)

Technical Skills

Ruby	Rails	RSpec	JavaScript	jQuery	React.js
Redux	SQL	Git	HTML	CSS	Java