

# Michael Duke

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## PROJECTS

**superBoards** (Ruby on Rails, React.js/Flux) | [live](#) | [github](#)

*Productivity web app for organizing notes and projects. Inspired by Trello.*

- Provides data to React.js/Flux through RESTful JSON API built in Rails.
- Allows secure authentication by encrypting user passwords in database.
- Implements real-time search through AJAX requests for seamless UX.

**AsteroidBlast** (JavaScript, HTML5) | [live](#) | [github](#)

*Browser based game inspired by classic side-scrolling arcade shooter games.*

- Renders multiple HTML5 canvas elements to create parallax visual effect.
- Implements collision detection based on trigonometric functions.
- Adheres to ES5 standards for maximum portability between browsers.

**ActiveRecord Lite** (Ruby, SQL) | [github](#)

*An implementation of Ruby on Rails' ActiveRecord core features.*

- Leverages Ruby metaprogramming principles to implement ORM.
- Abstracts complex SQL queries to Ruby classes, enabling easy data lookup.
- Enables DRY code through use of Ruby modules and inheritance.

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## SKILLS

<b>Ruby</b>	<b>JavaScript</b>	<b>React.js</b>	<b>HTML5</b>
<b>Rails</b>	<b>ES6</b>	<b>Redux.js</b>	<b>CSS3</b>
<b>SQL</b>	<b>jQuery</b>	<b>Flux</b>	<b>Git</b>

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## EXPERIENCE

**Capital Markets Accountant** - *BNY Mellon* **2007 - 2015**

- Automated processes with Visual Basic, eliminating daily production work.
- Wrote scripts in VB to parse data for audits and ad-hoc projects.
- Assisted development teams with accounting software implementations.

**Dance Instructor** - *Brooklyn Swings* **2014 - 2015**

- Conducted flexible group classes for students of all levels and physical ability.

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## EDUCATION

**App Academy** **2015 - 2016**

- Rigorous 1000-hour software development course with < 3% acceptance rate.
- Emphasis on CS fundamentals, TDD, pair programming, and best practices.

**Ramapo College of New Jersey** **2004 - 2007**

- Bachelor of Science in Accounting, GPA: 3.47
- President of Finance club

**PORTFOLIO** [www.michaelduke.nyc](http://www.michaelduke.nyc) • **GITHUB** [www.github.com/michaeldc](http://www.github.com/michaeldc)  
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