

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.

SKILLS

Ruby	Rails	SQL	HTML5	CSS3
JavaScript	jQuery	React.js	Flux	Git

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.

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

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