

David McIlroy

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[Portfolio](#)

[LinkedIn](#)

[Github](#)

PROJECTS

FaceLyft

Ruby on Rails, React, Flux

[github](#)

[live](#)

Single page app for social networking inspired by Facebook

- Users can post on profile pages or newsfeed which render smoothly via React without page refresh
- Implements a RESTful JSON API on a Rails backend for AJAX calls to retrieve friendships
- Efficient SQL queries and AWS S3 cloud storage increase response time for scalability

DOMoney

JavaScript

[github](#)

Lightweight JavaScript library that allows for DOM manipulation, event handling and AJAX requests

- Simplifies access to native DOM API methods and event handling through OOP
- Executes custom AJAX requests with a simplified interface

Tetrjs

JavaScript, React, CSS3

[github](#)

[live](#)

Browser game built in React inspired by Tetris

- Leverages React, Flux architecture and semantic HTML5/CSS3 to seamlessly render pieces
- Harnesses OOP to handle collision detection between and rotation of pieces in the game

SKILLS

Ruby

Ruby on Rails

JavaScript

jQuery

React.js

Flux

SQL

Git

HTML

CSS

EDUCATION

App Academy

April 2016 - July 2016, New York, NY

- 1000 hour full-stack development course with <3% acceptance
- Topics covered include: TDD, algorithms, OOP, coding style, REST, security and best practices.

Brown University / Ph.D. coursework in Philosophy

2009 - 2011, Providence, RI

Virginia Tech / M.A. in Philosophy

2007 - 2009, Blacksburg, VA

- GPA in Major: 3.76, Cumulative GPA: 3.49, Relevant coursework: Symbolic Logic

Princeton University / A.B. in Politics, cum laude

2002 - 2006, Princeton, NJ

- GPA in Major: 3.85, Cumulative GPA: 3.53, Relevant coursework: Analysis, Linear Algebra, Physics

Imperial College / M.Sci coursework in Pure Mathematics

2001 - 2002, London, UK

- Relevant coursework: Probability and Statistics, Mathematical Models, Mechanics

EXPERIENCE

Teacher and Independent Tutor

2011 - 2016, Providence, RI and New York, NY

- Subjects tutored include: Linear Algebra, Calc I-IV, Discrete Math, Statistics, Physics, Chemistry, Number Theory, Logic, Competition Math
- 100+ college and high school students submitted positive written testimonials on my online profile rating their experience which resulted in a 4.9/5 star rating from 667 online quantitative reviews