David McIlroy

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[Portfolio](#)   [LinkedIn](#)   [Github](#)

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PROJECTS

FaceLyft   Rails, React, Flux, PostgreSQL   [github](#)   [live](#)
Single page app for social networking inspired by Facebook
- Increases scalability and response time through efficient SQL queries and AWS S3 cloud storage
- Implements a RESTful JSON API on a Rails backend for AJAX calls to retrieve friendships
- User posts on profiles or newsfeed render smoothly via React without page refresh

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 streamlined interface

Tetrjs   JavaScript, React, CSS3   [github](#)   [live](#)
Browser game built in React inspired by Tetris
- Leverages Flux architecture and semantic HTML5/CSS3 to seamlessly render game pieces
- Harnesses OOP to handle collision detection 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