

David McIlroy

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PROJECTS

FaceLyft Ruby on Rails, React, Flux [github](#) [live](#)

Single page app for social networking inspired by Facebook

- Leverages React with Flux architecture on the frontend for dynamic rendering
- Implements a RESTful API on the backend
- Scalability through efficient SQL queries increasing response time and AWS S3 cloud storage

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 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 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