Greg Michnikov

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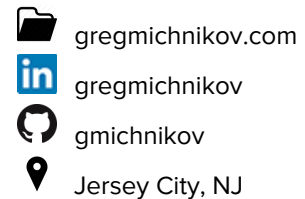
PROJECTS

Untrippd (Rails, PostgreSQL, React, Redux)   Live   Github

A fullstack, single-page travel recommendation sharing app, inspired by Untappd

- Optimizes aggregation of suggestions using polymorphic Suggestion model and custom SQL queries
- Enables suggestion location-tagging and images via Google Maps API, AWS
- Keeps code DRY with partials, reuse of SuggestionFeed React component

GM-84 Plus (JavaScript, jQuery, Canvas, Math.js)   Live   Github
Browser-based graphing calculator

- Engineered math features (e.g. trace, solutions, graph animation) from scratch
- Responsive design includes mouse-scroll zoom and drag-and-drop panning
- Utilizes HTML5 Canvas for pixel-level detail in graphs and calculations

Chess (Ruby)   Github
Terminal-based chess game that offers 1-player and 2-player mode

- Maximizes use of object-oriented design principles, including multiple levels of inheritance for chess pieces (e.g. Piece → Sliding Piece → Rook)
- Created Chess AI that looks to capture pieces and put opponent in check
- Guides user by highlighting valid moves and providing descriptive errors

EXPERIENCE

Success Academy Charter Schools (New York, NY) **-** MS/HS Math Teacher

JUNE 2013 - JUNE 2016

- 95% of MS students passed NY State math exam, vs. 31% statewide
- 90% of HS students met HS graduation requirement on SAT 2 Math

Achievement First (Brooklyn, NY)**,** Data Fellow

AUGUST 2012 - JUNE 2013

- Collected, cleaned, and analyzed data about 500+ teachers, allowing AF to successfully complete year 1 of innovative teacher evaluation program

GMATBoost.com (New York, NY)**,** Founder

MAY 2011 - NOVEMBER 2011

- Built site in PHP; scripted/recorded 250+ math videos; 50 paid customers

McKinsey & Company (New York, NY)**,** Business Analyst

SEPTEMBER 2006 - JULY 2008

- Performed regression analysis on 150,000 credit card approvals to understand relationship between response time and probability of card activation
- Analyzed millions of bank transactions to bring attention to irrational discounting

SKILLS

Ruby	Rails	JavaScript
HTML	CSS	jQuery
React	Redux	Git
RSpec	SQL	Tableau

EDUCATION

App Academy
1000+ hour web development course with < 5% acceptance rate; topics include test-driven development, OOP, REST, and custom authorization

Touro College -
MS in General Education & Special Education (2014)
GPA 4.0

Harvard University -
BA Economics (2006)
Cum Laude, GPA 3.6
Coursework included Intro CS, Statistics, Linear Algebra