

Samuel Greenlee

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Projects

Checkhov (Rails, PostgreSQL, JavaScript, React/Flux) — [live](#) • [source](#)

A full-stack, single-page project management application. Frontend written in JavaScript, React and Flux and consumes a RESTful API written in Rails.

- Custom-built React widgets provide a rich, seamless user experience
- Utilizes Optimistic rendering to respond instantaneously to user input
- Stores data on the cloud with AWS S3 for increased performance and scalability
- Supports OAuth2 authentication through Google for a low friction sign-up process
- Flux architecture improves simplicity and maintainability of the project

Bach Star (Javascript, HTML5, CSS3, Python) — [live](#) • [source](#)

Guitar-hero style keyboard game with a Baroque theme built in Javascript, jQuery, HTML5 and CSS

- CSS3 transforms to create aesthetically pleasing 3D graphics
- Custom midi-parsing script written in Python generates gameplay from actual music
- Uses Web Audio Api to accurately time game events with music

Bartleby (Ruby) — [source](#)

A lightweight object-relational mapping in Ruby. Reproduces much of the core functionality of ActiveRecord with a fraction of the overhead.

- Leverages Ruby metaprogramming techniques to reduce boilerplate code
 - Programmatically builds model classes from database tables
 - Built-in associations automate complex SQL queries
 - Distributed through rubygems.org
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Skills

JavaScript • React.js • Ruby • Rails • Flux • jQuery • Python
C • HTML5 • CSS3 • SQL • Git/Github • TDD • Bash

Education

App Academy

April - June 2016

- Web development course teaching Rails and React.js with a 3% acceptance rate.

CUNY Hunter College — M.A. in Applied Math and Statistics, GPA: 4.0

June 2015

- Capstone project: implemented and conducted an empirical assessment of the Large margin Distribution Machine in R and C

New York University — B.A. in Mathematics, GPA: 3.66

May 2012

- Member of the Gallatin Scholars honors society
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Experience

Metro Academic Prep — Math and Statistics Tutor

June 2011 - April 2016

- Improved academic performance and/or standardized test scores for all of my students
- Developed curricula for AP Calculus independent study and exam prep
- Worked individually with 4-6 students per semester