# 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 UI widgets provide a rich and seamless user experience
- Leverages Flux architecture to respond instantly to user input without waiting for a server response
- Cloud data storage with AWS S3 improves performance and scalability of the app
- Supports Oauth2 authentication through Google

**Harpsicord Hero** *(Javascript, HTML5, CSS3, Python)* — live  •  source

Guitar-hero style keyboard game 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)* — live  •  source

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

- Automatically builds model classes from database tables
- Built-in associations reduce the amount of SQL users need to write
- Distributed through rubygems.org

## Skills

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|---|---|---|---|---|---|---|
| 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 Ruby, Rails, JavaScript 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

## Experience

**Metro Academic Prep** — Math and Statistics Tutor                       *June 2011 - April 2016*

- Worked individually with 4-6 students per semester
- Improved academic performance and/or standardized test scores for all of my students
- Developed lesson plans and assignments for students independently studying for the AP Calculus exams