

# Brendan Hamill

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## Skills

Ruby Rails RSpec JavaScript jQuery CSS HTML5 Canvas SQL React Flux Git

### Shelf

[Site](#) | [Github](#)

*Full stack single-page web application inspired by Amazon's Goodreads*

- RESTful Rails backend integrated with React-Redux frontend through JSON API; automatically generated Rails associations maintain user relationships between shelves and books through join table and membership model.
- AWS integration for hosting book images; custom auth pattern authenticates user info using BCrypt.
- Asynchronous search allows users to find books by author, title, or user-defined genre tags.

### Merchant of Mercury

[Site](#) | [Github](#)

*HTML5/Canvas & Javascript game*

- Obstacle-dodging arcade style space shooter, designed with object-oriented programming principles in mind.
- All objects keep track of their own state; Canvas methods and jQuery are used to conditionally draw asteroids, pirates, lasers, missiles, etc. based on state.
- Firebase Realtime Database integration for high score tracking.

### jTraverse

[Site](#) | [Github](#)

*Javascript library inspired by jQuery*

- Custom library traverses the DOM, capturing elements by type, class or id; can also be used for AJAX requests.
- Strings, HTMLElements and functions are conditionally handled by a jTraverse wrapper that provides access to useful methods such as adding/removing classes, creating event listeners, and changing attributes.

## Projects

### Portfolio Finance Analyst - Institute of International Education (IIE)

Jan 2016 - Nov 2017

Lead analyst for the Fulbright Student program (Department of State program with a budget of \$80m/yr) & 80 smaller programs. Assisted in conversion of financial system from SAP to PeopleSoft; trained staff of 100+ on new financial system & compliance w. 2 CFR 200, resulting in enhanced team performance. Prepared annual budget/rebid and designed new technical reports and systems for improved budget transparency and compatibility with new financial system. Monitored subawards and conducted oversight visits to force compliance.

### Program Finance Analyst - IIE

Dec 2014 - Dec 2015

Analyst for the Brazil Scientific Mobility Program, a \$1b program for STEM exchange. Created MS Access database to generate and analyze over 3000 concurrent grantee budgets. Successfully oversaw cash flow management and forecasting, and financial reporting during cash flow crisis. Managed payments for 12 temp staff.

### Grants Accountant - IIE

Feb 2013 - Nov 2014

Tracked accounts receivable and revenue for IIE programs. Responsible for accounting journals, staff training, compliance, and processing; revised journal process for the Institute resulting in more intuitive documents and greater team compliance. Revised program contracts and budgets to ensure accuracy and staff comprehension.

## Work

## Experience

### App Academy

Nov 2017 - Feb 2018

1000-hour immersion software development course (80-100 hours/wk) with <3% acceptance rate, teaching full-stack development including React, JS, Rails, Ruby, SQL, algorithms, and programming best practices.

### M.Sc.- Environment & Development, London School of Economics

Fall 2011 - Winter 2012

Leading program focused on environmental policy and sustainable development, including sustainability policy, climate change mitigation & adaptation. Thesis topic: relative cost-benefit analysis of geoengineering schemes.

### B.A. - Political Science & Japanese Studies (Double Major), University at Albany

Fall 2005 - Spring 2009

Magna cum Laude with Honors, Phi Beta Kappa; overall GPA 3.72, Dean's List (seven of eight semesters)

## Education