

# JAKE BARSZCZ

## SOFTWARE DEVELOPER

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## WORK EXPERIENCE

### Software Engineer

May–July 2015

*Dash Software*

*New York, NY*

- Maintained and built out new functionality for Dash's Ruby on Rails REST API
- Worked with a small cross-functional team utilizing Agile, Scrum and TDD methodologies
- Took chief responsibility for creating new API endpoints for major website redesign
- Made significant architecture and UX improvements to internal tools, including a new permissions system in admin dashboard
- Implemented and improved Elasticsearch indexing on several ActiveRecord models

## PROJECTS

**BeatSoup (Live | Github):** A web application inspired by the popular social music site SoundCloud.

- Written in Backbone.js, consuming a RESTful JSON API served by a Ruby on Rails backend.
- Single-page app with Backbone composite views, making heavy use of AJAX, allowing for a now-playing queue that persists across a user's session.
- Overrides Backbone.sync to better facilitate error handling.

**Fixpoint (Live | Github):** A reader for [Hacker News](#) written with React.js.

- Leverages React's fast virtual DOM to create a highly performant single-page app.
- Consumes Hacker News' Firebase API, allowing for real-time updates.
- Features live search/filter of current top 100 stories on HN.

**JSteroids (Live | Github):** A browser-based JS version of the classic game Asteroids.

- Extends JS's Array prototype to add functions for vector math.
- Utilizes HTML5 Canvas for animation.

**ActiveRecord Lite (Github):** A basic reimplementation of Ruby on Rails' ActiveRecord ORM library.

- Takes advantage of Ruby's powerful reflection and metaprogramming facilities, including `send` and `define_method`.
- Implements search queries, insert/update, and associations.

## SKILLS

Ruby, Rails, Javascript, jQuery, Backbone.js, Node.js, React.js, PostgreSQL, Python, HTML(5), CSS, RSpec, Elasticsearch, Clojure (learning), Git, Drupal 6 & 7

## EDUCATION

### App Academy

November 2014–January 2015

Learned Ruby, Rails, Javascript and Backbone

*New York, NY*

- 5% acceptance rate, 10% attrition rate

### B.A. International Affairs, Magna Cum Laude

August 2010–May 2014

*George Washington University, Elliott School of International Affairs*

*Washington, DC*

- Minor in Economics
- Coursework in mathematics up to and including Multivariable Calculus