

Michael Roess [Portfolio](#) • [Github](#) • [LinkedIn](#)

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SKILLS

PostgreSQL, Ruby, Rails, jQuery, Javascript, React, Flux (Redux), HTML5, CSS3

PROJECTS

goodBooks (React/Redux, Rails) | *Sole Developer*

[live](#) | [github](#)

Open Source clone of Goodreads

- Designed modular React components with custom Redux wrappers for highly maintainable, DRY code
- Reduced database overhead by eliminating $n + 1$ queries with custom SQL
- Batched and prefetched data to reduce load-time, improve scalability, and smooth user experience

DiscoGraph (JavaScript, D3) | *Sole Developer*

[live](#) | [github](#)

Visualize Economic Data

- Integrated data from distinct APIs (Discogs, WEF) in a single chart with D3 library
- Mask pre-fetched data with CSS3 to improve app responsiveness
- Composed dynamic API calls to increase application interactivity

rORM (Ruby, SQL) | *Sole Developer*

[github](#)

Object Relational Mapping library in Ruby

- Wrote dynamic Ruby method generators providing models with access to columns and associated model records
- Create custom SQL queries to create, save, and update entries of subclasses

EXPERIENCE

Research Assistant Professor - *Stony Brook School of Medicine (2014-present)*

- Created custom Rails app for grant funded pilot study of 500 research subjects
- Oversaw development of integrated curriculum from disciplinarily diverse faculty as Co-Director of MA program; new curriculum approved by NYS SED & SUNY

Post Doc - *Stony Brook School of Medicine (2012-2014)*

- Improved SEO for departmental website, increasing traffic by a factor of 10 as well as user engagement in MA section

EDUCATION

Web Development - *App Academy (Winter 2016)*

- Immersive software development course; < 3% acceptance rate
- Teaches full-stack web development: Rails, SQL, JS, React, TDD, algorithms, and programming best practices

PhD Philosophy - *Stony Brook University, December, 2012 (4.0 GPA)*

- Taught and studied formal logic