Michael **Roess** [Portfolio](#) · [Github](#) · [LinkedIn](#)

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SKILLS

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

PROJECTS

DiscoGraph (JavaScript, D3, Discogs API, Node)   [live](#) | [github](#)
Visualize music popularity data across time
- Integrated data from distinct API calls in a single interactive chart with D3
- Pre-fetched data to improve responsiveness
- Composed dynamic API calls to increase application interactivity
- Wrote microservice back end to cache responses and comply with API rate limit

goodBooks (React/Redux, Rails)   [live](#) | [github](#)
Single Page Library Management App inspired by Goodreads
- Designed modular React components with custom Redux wrappers for highly readable, maintainable, and DRY code
- Reduced database overhead by eliminating n + 1 queries with custom SQL
- Store images in AWS s3 buckets to optimize load time and scalability

rORM (Ruby, SQL)   [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

Freelance Web Development - *Brooklyn, NY (2013-present)*
- Created Responsive site for local fine artist
- Created custom Rails app for grant funded pilot study of 500 research subjects

Research Assistant Professor - *Stony Brook School of Medicine (2014-present)*
- 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)*
- Increased SEO traffic by a factor of 10 as well as user engagement in MA section

EDUCATION

PhD Philosophy - *Stony Brook University, December, 2012 (4.0 GPA)*
- Taught and studied formal logic

Web Development - *App Academy (Winter 2016)*
- Immersive software development course; < 3% acceptance rate
- Full-stack web development, algorithms, and programming best practices