Michael Roess Portfolio · Github · LinkedIn

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SKILLS

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

PROJECTS

goodBooks (React/Redux, Rails) | Sole Developer

<u>live</u> I <u>github</u>

Single Page Library Management App inspired by 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

DiscoGraph (JavaScript, D3, Discogs API) | Sole Developer Visualize Music-popularity data across time

live I github

- Integrated data from distinct API calls in a single chart with D3 library
- Masked pre-fetched data with CSS3 to improve app responsiveness
- Composed dynamic API calls to increase application interactivity
- Throttle outgoing API requests

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
- Full-stack web development: Ruby, Rails, SQL, JavaScript, React, algorithms, and programming best practices

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

• Taught and studied formal logic