

Kathleen Townley

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Software Engineer

315.523.8418

Github: <https://tinyurl.com/kmtownleyGH>

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Skills: Ruby, JavaScript, SQL, Git, React, Ruby On Rails, jQuery, Project Management, Ruby, AJAX, Redux, HTML5, CSS3

Projects:

HOOT

[Live](#) | [Repo](#)

A Full Stack, single page app, which aggregates crowd-sourced reviews to connect users with great local businesses.

- Developed custom SQL queries to optimize search performance.
- Integrated Google Maps API for geolocation-based searching to display location filtered businesses.
- Utilizes image cloud storage through AWS, allowing for app scalability.

DECIMATION

[Live](#) | [Repo](#)

A browser edTech game that teaches word-decimal recognition. Built with JavaScript, HTML5 & Canvas.

- Implemented event listeners for game controls, recursively calling RequestAnimationFrame to update screen before next repaint.
- Integrated multiple layered canvases for complex scenes in order to avoid redrawing expensive objects.

ORMIFY

[Repo](#)

A lightweight Object-Relational Mapping (ORM) library for Ruby inspired by ActiveRecord.

- Leveraged object-oriented programming principles to query database, keeping code DRY and readable.

Experience:

MASTER MATHEMATICS TEACHER

2015-2017

DENVER SCHOOL OF SCIENCE AND TECHNOLOGY

- Became the top performing classroom within Denver Public Schools and the state of Colorado for the 2015 and 2016 school years with a 17% and 21% increase in student proficiency respectively.
- Tasked with designing and implementing network-wide blended learning curriculum reaching over 1,500 students in six schools using adaptive technologies to individualize learning objectives and provided powerful data analytics.

LEAD MATHEMATICS INSTRUCTOR

2011-2015

MIAMI-DADE COUNTY PUBLIC SCHOOLS

- Created and managed a technology-based after school program for at-risk students, which used curated online curriculum and adaptive technologies to address student misconceptions. Ultimately, the program increased student proficiency by over 25% and resulted in unprecedented learning gains.
- Recognized as a top-ten educator out of a pool of over 20,000 teachers by my second year.
- Founded and managed an after-school tutoring program aimed at reducing recidivism for at-risk students. Created data-based individualized learning programs, tracked achievement data resulting a 100% passing rate..

CORPS MEMBER

2011 -2013

TEACH FOR AMERICA Miami-Dade

- Selected from a pool of over 47,000 applicants to take part in an intensive teacher preparation program followed by a two year commitment to teach in underserved, high needs communities.

Education:

APP ACADEMY, WEB APPLICATION DEVELOPMENT

2017-2018

- An intensive fullstack web development course with < 3% acceptance rate

UNIVERSITY OF MIAMI, MSc IN EDUCATION AND SOCIAL CHANGE

2013-2015

- 3.9 GPA

INDIANA UNIVERSITY, BA IN INTERNATIONAL RELATIONS

2005-2008

- 3.9 GPA Phi Beta Kappa