

Kathleen Townley

Software Engineer

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<https://tinyurl.com/kmtownleyGH>



<https://tinyurl.com/kmtownleyLI>

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

Projects:

HOOT

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

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

- Developed custom SQL queries to optimize search performance.
- Integrated Google Maps API for geolocation-based searching to display location of businesses that match search parameters.
- Implements custom, secure authentication by hashing and salting passwords via BCrypt.
- 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 large, expensive objects.

Experience:

MASTER MATHEMATICS TEACHER

2015-2017

DENVER SCHOOL OF SCIENCE AND TECHNOLOGY

- Became the top performing classroom within Denver Public Schools 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. This edTech-based program used adaptive technologies to individualize learning objectives and provided powerful data analytics for instructors.

LEAD MATHEMATICS INSTRUCTOR

2011-2015

MIAMI-DADE COUNTY PUBLIC SCHOOLS & TEACH FOR AMERICA CORPS MEMBER

- 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.
- Nominated as a Discovery Learning digital leader. Attended several in-depth professional developments regarding effective integration of technology within the classroom.

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, Phi Beta Kappa

INDIANA UNIVERSITY, BA IN INTERNATIONAL RELATIONS

2005-2008

- 3.9 GPA