

PROJECTS

SPEECHIFY | React.js, Redux, Ruby on Rails

[GitHub](#) | [Live](#)

Solo developer for a single-page, streaming audio web application built on a Rails server with a dynamic React.js, HTML5, and CSS3 user interface

- Optimizes load times and user experience by populating the Redux store with key user data at sign in, reducing the need for AJAX requests
- Utilizes ActiveRecord and targeted SQL indexing to improve backend performance when fetching playlists and associated track information

OBJECT-LEARNING | JavaScript, Node.js, Jest

[GitHub](#) | [npm](#)

Authored an npm module for building models from JavaScript objects

- Wrote functions for performing linear regression, logistic regression, and K-means clustering directly on arrays of JavaScript objects
- Built on top of MatrixOps, another npm module I wrote that facilitates matrix arithmetic with JavaScript arrays and has over 2,000 downloads

EVOLUTIONJS | JavaScript, HTML5 Canvas, Highcharts

[GitHub](#) | [Live](#)

Implemented a browser-based visual natural selection simulation

- Uses custom AI to dictate predator and prey behavior, drawing on object-oriented principles to abstract common logic
- Visualizes generation-by-generation population and fitness data using live updating Highcharts graphs

SKILLS

JavaScript • React • Redux • Ruby • Rails • SQL • HTML5 • CSS3 • Node.js
RSpec • Jest • Java • D3.js • MATLAB • UX Design • Balsamiq • Photoshop

EDUCATION

APP ACADEMY | San Francisco, CA

Jul 2016 - Sep 2016

Rigorous full-stack web development course, 3% acceptance rate

BROWN UNIVERSITY | Providence, RI

Sep 2009 - May 2013

Sc. B Applied Math - Biology

GPA: 3.89, *magna cum laude*

SAT: 800 M, 780 V

EXPERIENCE

IXL LEARNING | San Mateo, CA

Jun 2013 - Jul 2016

[Associate Product Manager](#) • Jun 2015 - Jul 2016

- Defined the product roadmap for IXL's Analytics reports for teachers, administrators, parents, and students
- Led a complete redesign of IXL's reporting suites with a Senior Product Manager, which increased feature page views by 40%
- Built a tool in Java to analyze server logs, which was used to evaluate feature success, identify usage patterns, and aid in data-driven design

[Product Designer](#) • Jun 2013 - Jun 2015

- Drove new features from inception to release, including location-based customizations that led to a 5% increase in conversions
- Coordinated a three company effort to integrate IXL's Quia Books platform with Blackboard Learn's learning management system