

# Tiffany Shiu

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## SKILLS

JavaScript, React, Redux, Ruby, Rails, Java, RSpec, CSS3, HTML5, Webpack, SASS, OOP, jQuery, Git

## EXPERIENCE

**Ruby Instructor | Technical Admissions Specialist** - App Academy

June 2018 - Mar 2019

- Ruby Instructor
  - Created lesson plans, gave lectures, led seminars on debugging best practices, held one-on-one tutoring-sessions, graded homework assignments and assessments.
  - Contributed, reviewed, and ensured quality of the main curriculum for a new online platform
- Technical Admissions Specialist
  - Led technical and non-technical interviews with prospective students, assessing algorithmic aptitude in a variety of programming languages including Ruby, Python, Javascript and Java

## PROJECTS

**Eatsy** Ruby on Rails, PostgreSQL, React, Redux

[Live](#) | [Github](#)

*An Etsy inspired application where you can buy or sell homemade food*

- Implemented Protected Routes that prevented unauthorized access to user's data using React
- Utilized Cloudinary to host image uploads, which optimized database storage and manipulation of image size
- Customized Rails json payloads using JBuilder to minimize API calls to the server and ensure smooth navigation between pages

**Food Filter** MongoDB, Express, React, Redux, Node.js, Passport

[Live](#) | [Github](#)

*Based off of the user profile, Food Filter highlights the allergy ingredients you want to avoid based on your search*

- Applied Quagga JS Library to implement barcode reading capabilities
- Improved user experience for use of barcode reader by displaying unreadability errors

**Tetra-Cube** JavaScript

[Live](#) | [Github](#)

*A classic game of tetris*

- Added event listeners using DOM manipulation and custom keys for faster gaming experience
- Utilized HTML5 Canvas and matrices for tetra-cube pieces to enable easy and smooth rotation
- Organized code by separating components for readability and utilized webpack to bundle all the components

**Tic-Tac-Toe** JavaScript, React

[Live](#) | [Github](#)

*Challenge the AI and play the advanced computer with Tic-Tac-Toe*

- Created an advanced computer AI with the minimax algorithm for an undefeatable computer player
- Constructed three different player modes for a variety of game plays
- Improved the AI calculation speed with alpha-beta pruning of the minimax tree

## EDUCATION

**App Academy**

Spring 2018

- 1000-hour full-stack web development intensive course with a <3% acceptance rate
- Topics include: TDD, scalability, algorithms, OOP, coding style, REST, security, single-page apps, and web development best practices

**University of North Dakota** - Magna Cum Laude - 3.84 / 4.00

Dec 2017

- Bachelor in Accountancy
- Bachelor of Arts in Chinese Studies