Michael D. Chilton

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[Portfolio](#) | [Github](#) | [LinkedIn](#)

PROJECTS

Yack *(Rails, React, Redux)* [Live](#) | [Repo](#)
Group messaging platform, built with Ruby on Rails and React
- Built with Action Cable WebSockets framework to allow users to post messages instantaneously
- Incorporated private direct messaging system for communication between individuals and small groups
- Implemented Redux architecture for unidirectional data flow allowing for reliable application logic

Primordial Soup *(JavaScript, jQuery)* [Live](#) | [Repo](#)
An infinitely wrapped Conway's Game of Life simulation
- Utilized jQuery for efficient DOM manipulation allowing users to toggle cell life status
- Designed intuitive UI for seemless manipulation of simulation settings

Hayai *(Ruby)* [Live](#) | [Repo](#)
A lightweight View-Controller framework built in Ruby
- Incorporated Rack middleware to interface between the server and main application
- Enabled template rendering through use of a base controller class to handle web requests
- Utilized regular expressions to allow for mapping of requests to appropriate controller and controller action

SKILLS

Ruby on Rails	React	Redux	CSS	RSpec	Java
Ruby	JavaScript	jQuery	SQL	HTML	Git

EDUCATION

Web Development – App Academy   **Spring 2017**
- Rigorous 1000-hour full stack web development course with <5% acceptance rate
- Teaches Ruby on Rails, React, SQL, TDD, Ruby, JS, algorithms, single-page apps, and programming best practices

University of Vermont (Burlington, VT)   **January 2016**
GPA: 3.37 / 4.0
Bachelor of Science in Microbiology with Minor in Japanese

Curriculum Highlights: Java, Python, Statistics, Calculus

Nanzan University (Nagoya, Japan)   **June-December 2015**
Studied Japanese Language abroad in Japan

WORK HISTORY

Crew Member, **Trader Joe's (Newton, MA)**   **June 2016-December 2016**
- Delivered positive customer experience by providing product information and assistance in locating items
- Stocked delivered product on shelves during night shift to ensure efficient store opening by morning crew

Intern, **Tokyo National Hospital – Suzukawa Lab (Tokyo, Japan)**   **August 2015**
- Worked in Suzukawa Lab investigating Tuberculosis development in macrophages
- Analyzed macrophage development after exposure to certain cytokines for expression of certain receptors

Undergraduate Intern, **University of Vermont-Wright Lab (Burlington, VT)**   **Fall 2013-November 2014**
- Worked in Wright Lab investigating methanogenic Archaea in human gut
- Extracted DNA from stool samples for further analysis of gut biodiversity