

Michael D. Chilton

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 [Portfolio](#)

 [Github](#)

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SKILLS

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

PROJECTS

Yack (Rails, React, Redux) [Live](#) | [Repo](#)

Group messaging platform, built with Ruby on Rails and React

- Built with Action Cable WebSockets framework allowing users to post and respond to messages instantaneously
- Incorporated private direct messaging system using Active Record associations 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 manage cell life status and build customized patterns
- Designed intuitive UI for seamless manipulation of simulation settings

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

A lightweight View-Controller framework built in Ruby

- Incorporated Rack middleware as an interface between the server and the main application
- Enabled template rendering through use of a base controller class to handle web requests
- Ensured proper application routing through regular expressions to allow for mapping of requests to appropriate controller and controller action

EDUCATION

Web Development – App Academy

December 2016 - March 2017

- Rigorous 1000-hour full stack web development course with <3% 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

- 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

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 specific receptors
- Discovered potential targets for further experimentation and analysis

Undergraduate Intern, Wright Lab (Burlington, VT)

September 2013-November 2014

- Worked in Wright Lab investigating methanogenic Archaea in human gut in order to generate microbiome profiles for GI-related diseases
- Extracted DNA from stool samples for further analysis of gut biodiversity
- Optimized PCR protocol to achieve 50% increase in DNA sample yields