

# Ryan Hall

## Web Developer

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[GitHub](#)



[LinkedIn](#)



[Portfolio](#)

## Experience

### Software Engineer

App Academy

Jan 2016 - Present

- ▶ Taught 80-person courses on the following topics:
  - ▷ Rails, SQL, React, Redux, JQuery
  - ▷ Object oriented design
  - ▷ Data structures
  - ▷ Big-O analysis
  - ▷ Authentication patterns

### Research Assistant

University of Maryland

Aug 2013 - May 2015

- ▶ Developed approximations that govern the range of energetic particles in matter
- ▶ Generated simulations for use of energetic particles in hadron radiation therapy, method of cancer treatment

## Projects

### PickUp (Ruby on Rails, React.js, Redux.js)

A web application designed for pick-up sports enthusiasts

- ▶ Authentication system protected by BCrypt
- ▶ Dynamic search filters by viewport, date, time, and sport
- ▶ Single page design facilitates quick navigation

### Veriscope (Ruby on Rails, Chrome Extension) ([github](#))

A virus scanner for your news feed

- ▶ Combines a Chrome Extension with a natural language processing Rails API to flag and filter malicious news content on the web

### Repo-Vision (node, express.js, vis.js) ([npm](#), [github](#))

An npm package that allows you to visualize and interact with your local repository in the browser

- ▶ Builds a graph of commit nodes from a local repository
- ▶ Express serves the graph data on a local port
- ▶ Browser uses vis.js to draw the graph and add interactivity

### Langton's Ant (jQuery) ([live](#), [github](#))

Visualization of the Langton's Ant simple Turing machine

## Skills

Rails

React

Redux

Ruby

Javascript

JQuery

HTML

CSS

SQL

Git

## Education

### B.S. Physics

University of Maryland

Aug 2010 - May 2014

- ▶ Honors citation