

Ryan Hall

Software Engineer

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[GitHub](#)



[LinkedIn](#)



[Portfolio](#)

Experience

Full-Stack Engineer

FinalForms

Jan 2017 - Present

- Designed, built, and maintained Rails applications that enable schools to easily collect and manage student data

Instructor

App Academy

Dec 2015 - Jan 2017

- Taught 70-person courses on the following topics:
 - ▷ Ruby on Rails, SQL, React, Redux, JQuery
 - ▷ Object oriented design
 - ▷ Data structures and algorithms

Research Assistant

University of Maryland

Aug 2013 - May 2014

- Developed approximations that describe the range of energetic particles in matter
- Generated simulations for use of energetic particles in hadron therapy, an alternative to traditional radiation therapy in 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

NewsHound (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 fake news as you browse 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