

Ryan Hall

Software Engineer

240-315-4526 ♦ Hall.Ryan.R@gmail.com



[GitHub](#)



[LinkedIn](#)



[Portfolio](#)

Experience

Software Engineer App Academy Dec 2015 - Present

- ▶ Taught 70-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 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