

# Thomas Hopkins

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## PROJECTS

**BetterSounds** (*Rails, React/Flux*) | [live](#) | [github](#)

*RESTful app enables the sharing/discovery of music, inspired by SoundCloud*

- Provides seamless navigation of site through single page construction
- Integrates OmniAuth to allow user login through Facebook and Twitter
- Customized the HTML audio tag to give persisting sound to application

**Rails Lite** (*Ruby, SQL*) | [github](#)

*MVC framework for generating dynamic web pages*

- Built an ORM for the abstraction of complex SQL queries
- Implements controller inheritance through a ControllerBase class

**Cloud Breaker** (*JavaScript, HTML5*) | [live](#) | [github](#)

*Browser-based game in the style of Brick Breaker*

- Renders omnidirectional movement and collisions using HTML5 Canvas

## SKILLS

<b>Ruby</b>	<b>Rails</b>	<b>HTML/CSS</b>	<b>React</b>	<b>SQL</b>
<b>JavaScript</b>	<b>jQuery</b>	<b>Node</b>	<b>Flux</b>	<b>Git</b>

## EXPERIENCE

**Research Assistant** - North Shore/LIJ Health System

**2011-2015**

- Classified distinct B-cell subpopulations in human peripheral blood samples
- Employed flow cytometric analysis to complete three multi-year projects

**Research Assistant** - University of Pennsylvania

**2009-2011**

- Coordinated a now published study of nicotine seeking behavior in rodents
- Trained four undergraduates, two later hired full time by Principle Investigator

Publications: *Nature Genetics*, *Journal of Immunology*, *Journal of Neuroscience*, *Neuropsychopharmacology* (first author), *European Journal of Pharmacology*

## EDUCATION

**App Academy** - Acceptance rate < 3%

**2015-2016**

- Full-stack web development training program, with an emphasis on pair programming, test-driven development, and best practices

**University of Pennsylvania**

**2006-2010**

B.A. in Chemistry

- Focused on STEM courses, including Statistics and Multivariable Calculus

**PORTFOLIO** [www.thomashopkins.tech](http://www.thomashopkins.tech) • **GITHUB** [github.com/thomasjohnhopkins](https://github.com/thomasjohnhopkins)

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