

# Michael W. Johnson

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Backend developer based in NY metro area open to relocation.

## Projects:

**MockDoc** - [github.com/mjohnson324/mockdoc](https://github.com/mjohnson324/mockdoc) | [www.mockdoc.live/](http://www.mockdoc.live/)

*A website based on ZocDoc, an app for scheduling appointments with doctors*

- Developed single page application by combining Ruby on Rails as a backend API with React and Redux on the frontend
- Visualized doctor addresses with Google Maps API
- Implemented custom appointment sorting methods for an improved user interface, organizing appointments by doctor
- Applied eager loading to searches, reducing SQL queries and loading time

**Blockhead** - [github.com/mjohnson324/blockhead](https://github.com/mjohnson324/blockhead) | [michael-w-johnson.com/blockhead/](http://michael-w-johnson.com/blockhead/)

*A navigation puzzle game based off Bloxorz*

- Rendered game using HTML5 Canvas context for fast gameplay
- Applied OOP techniques in modern ES6 Javascript to partition code for maintainability
- Developed TDD style with Jest unit tests to ensure code reliability

**RDCover** - [github.com/mjohnson324/RDCover](https://github.com/mjohnson324/RDCover)

*An Object Relational Mapping library for interfacing with SQL databases*

- Used Ruby metaprogramming to dynamically create association macros
- ORM implemented basic CRUD functionality with intuitive interface for SQL databases

## Work Experience:

**Web Administrator** - Penn State Alumni NYC Chapter February 2018 - Present

- Created, edited responsive web pages with HTML5 and CSS3 for better user experiences
- Analyzed code and consulted with backend developers to debug display and signup issues
- Designed pages requested by chapter leaders through ongoing communication

**Small Business Owner** - Independent Contractor May 2014 - February 2017

- Painted and remodeled house interiors part-time
- Procured supplies and managed expenses independently
- Found customers through referrals, building network and developing client base

**Tutor** - Pennsylvania State University August 2009 - December 2010

- Developed individual strategies for Penn State students with a curriculum built around calculus and chemistry, which improved grades for multiple students

## Technical Skills:

### Top Skills:

- ★ Python
- ★ Ruby on Rails
- ★ React
- ★ Redux
- ★ Ruby
- ★ JavaScript

### Other Skills:

- ❖ TDD
- ❖ PostgreSQL / SQL
- ❖ HTML5
- ❖ Git
- ❖ CSS3

## Education:

### Pennsylvania State University

- ★ BS Science, 2009 - 2013
- ★ Minor Bioengineering
- ★ 3.5/4.0 GPA

### App Academy - 2017

- ★ Full-Stack Web Development
- ★ Intensive 1000-hours course

## Trivia...

I'm an amateur chef with a penchant for grilled and spicy food. I love cooking and have even hosted barbecues.