

Michael W. Johnson – Frontend Engineer

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Experience and education in web software and application design and development. Strong knowledge of software engineering concepts. Able to quickly identify issues and create solutions. Committed to working within client and project specifications to deliver cost-effective timely results. Analytical mindset with superior problem solving and teamwork skills.

Technical Skills

JavaScript, React, Redux, HTML5, CSS3, Python, Git, Ruby, Ruby on Rails, SQL

Projects

MockDoc: A fullstack web application for scheduling appointments with doctors.

Repo: github.com/mjohnson324/mockdoc | **Live:** www.mockdoc.live/

- Built backend REST API with Ruby on Rails and a PostgreSQL relational database for a more robust frontend.
- Designed frontend single-page application with React framework and Redux for better state management.
- Created responsive display through media queries in CSS3 for browsing on mobile devices.
- Visualized doctor addresses with the Google Maps API.

Blockhead: A browser-based puzzle game based.

Repo: github.com/mjohnson324/blockhead | **Live:** www.michael-w-johnson.com/blockhead/

- Rendered game using HTML5 Canvas context for fast gameplay.
- Applied object-oriented programming techniques in ES6 JavaScript to maintain and update game code.
- Added touch controls and responsive screen layout to make game playable on mobile devices.

RDCover: An ORM (Object Relational Mapping) library built with Ruby and SQL.

Repo: github.com/mjohnson324/RDCover

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

Tutor - Varsity Tutors

4/2019 - Present

- Taught chemistry part-time to high school students, boosting grades.
- Formulated lesson plans and guided students through problem-solving to promote understanding of material.

Small Business Owner - Independent Contractor

5/2014 – 2/2017

- Painted and remodeled house interiors with strategies to complete work cleanly and efficiently.
 - Procured supplies and managed expenses independently to keep a flexible schedule for customers.
 - Identified customers through referrals and networking, developing client base.
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Volunteer Experience

Web Administrator - Penn State Alumni NYC Chapter

2/2018 - 12/2018

- Created and edited responsive web pages with HTML5 and CSS3, creating a better user experience.
 - Analyzed code and consulted with backend developers to debug display and sign up issues.
 - Collaborated and communicated with chapter leaders regarding web page design, modifications, and enhancements.
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Education

App Academy

7/2017 - 9/2017

Immersive fullstack web development course and top-ranked coding bootcamp with pair programming

Pennsylvania State University

8/2009 - 12/2013

3.5/4.0 GPA, Bachelor of Science in Science, Minor in Bioengineering