

# DONNIE WOMBOUGH

## Fullstack Software Engineer

Altoona, PA (Open to relocation nationwide)

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[Portfolio](#)

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[Github](#)

## SKILLS

JavaScript, React, Redux, HTML, CSS, Ruby, Ruby on Rails, Java, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, Linux, Object-Oriented Development, DRY Coding, Test-driven Development, Computer Science Fundamentals, Information Technology Workflows, Peer Training, Collaborative Development

## PROJECTS

**SomaShare** (React/Redux, Node, Express, MongoDB)

[live](#) | [github](#)

A single-page social media web application allowing users to share and discover educational resources.

- Acted as project lead, organizing group members' responsibilities and collaborating with errors and design questions while managing the database and all members' remote repository pull requests to deliver quick results.
- Developed the majority of the backend and Redux while managing and contributing to frontend design, which streamlined the workflow and provided a strong foundation to build out the rest of the application.
- Implemented multiple CRUD functionalities using Axios alongside RESTful routing conventions to provide a responsive and efficient user experience with proper system design in mind.

**PhysBox** (JavaScript, HTML Canvas, Paper.js)

[live](#) | [github](#)

An interactive physics sandbox built with vanilla Javascript and the fundamentals of Newtonian mechanics.

- Created using a complex custom 2d physics engine built with vanilla JavaScript, starting from the basic equations and units of physics to maximize technical accuracy and software scalability.
- Built objects and basal functionalities such as forces and velocities using object oriented programming principles, providing readability, organization, and encapsulation.
- Designed from the ground up with efficiency in mind using software engineering best practices and custom algorithms, with optimizations such as only performing certain calculations and checks at frame intervals rather than every frame resulting in small precision losses for large performance improvements.

**Nile** (React/Redux, Rails 5, PostgreSQL, AWS w/ Rails ActiveStorage)

[live](#) | [github](#)

A single-page fullstack clone of Amazon.

- Implemented a secure user authentication process using BCrypt hashing and salting for password storage.
- Developed a custom search functionality by utilizing a Redux state which is dynamically updated based on the resulting query string, allowing users to search for products by category and keyword seamlessly.
- Optimized database usage and eliminated N+1 queries by taking advantage of Active Record eager loading.
- Stored images on AWS S3 and used Rails ActiveStorage to associate them with products in the database, allowing for scalable remote storage and ease of development when working with images.

## EDUCATION

**App Academy** - Highly selective and fast-paced four-month software development training program 2021

**Stony Brook University** - BS Physics 2014 - 2018

## EXPERIENCE

### Delivery Driver

East Setauket Ventures Corp - Full Time

Oct 2017 - Apr 2021

- Recognized by management for exceptional consistency, reliability, innovation in process efficiency, and ability to respect and be respected by teammates, leading to frequent entrustment with company assets and management responsibilities such as organizing delivery logistics for important holidays.
- Delivered an exceptional customer experience, building relationships which contributed to customer retention.

### General Laborer

Howell Township Department of Public Works - Seasonal Full Time

Jun 2015 - Aug 2018

- Recognized and respected by coworkers and superiors for consistently high-quality work and reliability.