

Andrew Swe

(240)-315-4587 | answe@mix.wvu.edu | Github: [andrewswe](#) | New York, NY

PROJECTS

CouchPotato (Ruby on Rails, JavaScript, React/Redux, PostgreSQL, Webpack, HTML/CSS)

- Full-stack, single page, web app inspired by CouchSurfing built with MVC architecture for the UI
- Employs Redux architecture on the front end for complex state management and data flow
- Utilizes React's virtual DOM to perform CRUD operations for users, cities, and hosting requests using calls to the REST API

NewsFeed (JavaScript, TypeScript, MongoDB, Express.js, Angular, Node.js)

- Full-stack, single page, web app with CRUD functionality for news posts through a REST API
- Implemented search feature that detects partial matches across multiple fields in the Mongo database tested with Jasmine and Karma

VenNews (JavaScript, GraphQL, Express.js, React.js, Node.js)

- Single page web application with CRUD functionality for showcasing venues and reviews
- Features dynamic components that update independently as internal state changes
- Incorporated Apollo Client along with GraphQL for querying and appending to the database

Snake-Query (JavaScript)

- Browser implementation of the popular game Snake using a recreated version of the jQuery library using vanilla JavaScript
- Makes AJAX requests, handles events, and manipulates the DOM to control game functionality

SKILLS

Programming Languages: JavaScript, Ruby, Java, C/C++, Python

Libraries and Technologies: HTML/CSS, Rails, React.js, Redux Architecture, MongoDB, Express.js, Node.js, Angular, PostgreSQL, jQuery, Canvas, Git, MVC Architecture, REST API, RSpec

WORK EXPERIENCE

Mechanical Engineer

Bradshaw Construction Corporation

March 2017 – March 2018

- Performed finite element method, force analysis, and stress/fatigue analysis
- Utilized both AutoCAD and SolidWorks to create technical drawings, perform finite element analysis, and create virtual prototypes of designs
- Researched and designed mechanical/electrical systems, structures, and fixtures

Mechanical Engineer Co-op

Precision Castparts Corp

January 2017 - March 2017

- Performed analysis, testing, and documentation for existing parts/processes as well as those in development
- Worked alongside management and engineering teams to reduce bottlenecks in processes

EDUCATION

West Virginia University

Mechanical Engineering, B.S.

Graduated 2016

App Academy

1000+ hour full-stack software development course with a <3% acceptance rate

2018

Related Course: Intro to CS (C Language), Linear Algebra, Discrete Mathematics, Data Structures/Algorithms, Mechatronics