

Andrew Swe

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PROJECTS

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

- CouchSurfing inspired application, applies MVC architecture to construct the server-side REST API
- Employs Redux architecture on the front end for complex state management and data flow
- Utilizes React to build modular frontend components to make calls to the server to allow for CRUD functionality

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

- Web app utilizing Express + Node.js to construct server side API
- Implemented search functionality that detects partial matches across multiple fields in the MongoDB 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
- Utilizes modular React components to create a slick and intuitive user interface
- 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, SQL, C/C++, Java

Frameworks/Technologies: Rails, Express.js, Node.js, Redux, PostgreSQL, jQuery, REST API, Git, Canvas.js, HTML/CSS, RSpec

WORK EXPERIENCE

Mechanical Engineer

Bradshaw

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

Mechanical Engineering, B.S

West Virginia University

Graduated 2016

Software Development

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