

JONATHAN DIAZ

SOFTWARE ENGINEER

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SKILLS

- JavaScript
- React
- Redux
- HTML
- CSS
- Ruby
- Ruby on Rails
- Mongoose
- MongoDB
- Node.js
- Express.js
- SQL
- SQLite3
- PostgreSQL
- Webpack
- jQuery
- Git
- AWS
- Linux
- MacOS

EXPERIENCE

Co-Founder and Software Engineer | Jan. 2022-Present

Nosco Solutions, LLC

- Build CRM system for Essex County College for student alumni using Rails backend and React frontend frameworks, employing scraping algorithms to retrieve alumni data from LinkedIn.
- Re-design Springfield Pride Parade website using HTML, CSS, JavaScript by developing animations and embedding google forms to collect user data
- Enhance user interface for a local gym website using HTML, CSS and JavaScript, resulting in a 20% increase in membership

Bootcamp Prep Instructor | Oct. 2021-Present

App Academy

- Instruct software engineering students in JavaScript fundamentals, Rails, React, Ruby, HTML, CSS, PostgreSQL, Data Structures and Algorithms
- Enhance student learning by optimizing a wide range of instructional approaches and innovative activities
- Coach students as they build their full-stack and front-end portfolio projects and provide constructive feedback.

Operations Manager | Jan. 2016 - Feb. 2020

Culinaire

Regional Sales Manager | Jan. 2012 - Dec. 2015

Urban Sales Network (subcontractor for Verizon FiOS)

PROJECTS

TableOpen | React, Redux, Rails 5, Ruby, PostgreSQL

[Link](#) | [GitHub](#)

A clone of restaurant reservation app OpenTable

- Using Ruby on Rails, set up Users, Restaurants, Reservations and other ActiveRecord models and controllers to properly store into and query the database
- Utilized Ajax to make API calls over HTTP and pass relevant data from the backend through JSON jbuilder and render on the frontend.
- Implemented a search autocomplete feature that leverages a Trie for the restaurant names and cities. The fragment is sent to the backend which is then used to query the database with a wildcard to enhance user experience.

Linkr | React, Redux, MongoDB

[Link](#) | [GitHub](#)

A cross between LinkedIn and Tinder

- Successfully created and utilized a database from MongoDB for all relevant user information.
- Prevented rainbow table attacks and storing plain text passwords in the database by using the BCrypt hashing algorithm for passwords.
- Mongoose ODM for relevant data, validator.js library, express router, axios, mSTP, mDTP, React Router, IDs as keys in the redux store to provide constant time lookup of items in the state. Writing thunk actions passport and JWTs.

Word Scramble | JavaScript

[Link](#) | [GitHub](#)

Word guessing game using only 7 letters

- Built a prefix tree using Scrabble dictionary text file to randomly select a 7 letter game word, then using the prefix tree, a two dimensional array, and a queue efficiently to retrieve all possible words using only those 7 letters.
- Implemented dynamic styling to shift game letters for more appealing and interactive user experience (UX).
- Utilized JavaScript to build and style containers for all relevant game words before and after they are found.

EDUCATION

AppAcademy | 2021

Highly selective web development program with a 3% acceptance rate.

Caldwell University | 2018 | 3.7 GPA

B.S. Computer Information Systems, B.S. Financial Economics

Essex County College | 2016 | 3.9 GPA

A.S. Business Administration - Finance.