

Rakin Rouf

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SKILLS React.js, Redux, Ruby on Rails, JavaScript, jQuery, Python, TDD, HTML5, CSS3, SASS, SQL, Git

EDUCATION

App Academy

Curriculum of Study in Web Development (Ruby on Rails and JavaScript)

San Francisco, California

December 2019 – April 2019

The University of Akron

Bachelor of Science in Computer Science

Akron, Ohio

Class of 2016

PROJECTS

Greentrade (React, Ruby on Rails, PostgreSQL, HTML5, CSS3, Webpack)

[Live Site](#) | [Github](#)

Stock trading app (clone of Robin Hood)

- Utilized various financial APIs to retrieve live stock market and news data to display to the user.
- Implemented a chart viewing component using Recharts and React that displays historical data of stock prices across multiple time frames.
- Created search functionality with auto-complete that allows the user to search for any company available on the stock market

Pictr (React, Ruby on Rails, PostgreSQL, HTML5, CSS3, Webpack)

[Live Site](#) | [Github](#)

Image sharing website (clone of Flickr)

- Implemented secure and safe user authentication using bcrypt to generate hashed and salted passwords, following modern security standards.
- Increased performance and scalability by utilizing AWS s3 buckets to store image data on the cloud.
- Architected database schemas to efficiently store user data in ways that would reduce redundancy and increase search time through indexing.
- Created full CRUD features for models in the application using RESTful architecture through Rails.

Seam Carving (Javascript, CSS, HTML5, Node.js, Webpack)

[Live Site](#) | [Github](#)

A site that visualizes seam carving - a content aware image cropping algorithm

- Implemented seam carving using dynamic programming along with grey scale conversion and image gradient calculation.
- Leveraged webpack to organize code efficiently in multiple files.
- Utilized HTML canvas to render images and gather pixel data.

EXPERIENCE

North Carolina State University - Plant Science Research

Raleigh, North Carolina

Programmer/Laboratory Technician

June 2018 – March 2019

- Collaborated on a 3 person team, creating software and scripts to analyse genetic data.
- Worked extensively on Linux operating systems, utilizing shell scripting and the command line to store and read data across different networks and databases.
- Utilized Bash and Python to create fast and efficient software to parse and process large amounts of genetic data.
- Created tools to scrap and aggregate wheat heritage data from the web as well as organize the data into inheritance trees.

North Carolina State University - Crop and Soil Sciences

Raleigh, North Carolina

Programmer/Laboratory Technician

August 2015 – September 2017

- Responsible for planning and implementing scripts to process genetic data and extract information as specified by geneticists
- Utilized Bash and Python on Linux to create fast and efficient software to parse and process large amounts of data.
- Provided technical expertise and created software for an experiment which mapped changes in gene expression of soybean cultivars. The results of the experiment were published in the scientific journal PLOS ONE. [Article Link](#)