Dave Gagnat

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SKILLS Java, Ruby, Rails, React, Redux, Node.js, JavaScript ES6, HTML5, SCSS, RSpec, SQL, AWS, Webpack, Git, jQuery

PROJECTS

Insight | *(React/Redux, Rails 5, JavaScript ES6, Webpack, Node.js, Ruby, PostgreSQL, AWS, Git, SCSS)*   **live** | **github**
An instagram clone that has user auth, posts, comments, likes, and separate profiles.

- Utilized caching in conjunction with ActiveRecord associations to design custom queries, eliminating n+1 queries and efficiently fetching necessary data as required by the system.
- Utilized React Router as a navigation tool, rendering only the components necessary for each specific page of the application while assuring that all required data is passed to each component.
- Leveraged Rails Active Storage to maintain an AWS S3 cloud database for image uploads, reducing server load and allowing for future scalability.
- Implemented custom user authentication utilizing bcrypt hashing function on the backend in conjunction with protected Rails-Routes on the frontend to prevent storage of plain text passwords and restrict access to protected site data.

Starlight-Insights | *(MongoDB, Express, AWS, Node.js, React/Redux, JavaScript ES6, Nodemon, NPM, Git)*   **live** | **github**
A sticky note app that has user auth, allows users to make notes, delete and color them.

- Utilized Mongoose ORM to map results of database queries onto JavaScript objects to be manipulated and returned to the frontend, separating concerns and following MVC best practices.
- Implemented User Auth by encrypting user details via the JSON Webtoken library to be sent over HTTP using Axios to be decrypted via the JWT-Decode library on the frontend.
- Utilized git branching workflow strategy which allowed others to peer review code and make changes on that branch before merging with the master.

Godsend | *(React/Redux, Rails 5, JavaScript ES6, Webpack, Node.js, Ruby, PostgreSQL, NPM, Git, IEX Api)*   **live** | **github**
A Robbinhood clone that has user auth, live data on 6000+ listed securities, news, visual data, with watchlist.

- Pulled live financial data by utilizing IEX's API together with AJAX to streamline data and provide updated financial information about different securities for the user.
- Implemented data visualizations by utilizing the FusionCharts library which dynamically render stock price information in real time.
- Built controllers following REST and CRUD operations using rails 5, PostgreSQL associations to accurately and efficiently display data in JSON format which can easily be pulled into the frontend.

Crypto Chart | *(DOM manipulation, Vanilla Javascript, D3)*   **live** | **github**
A D3 library app that visually displays the top five crypto currencies in graph form based on different categories of price.

- Built a data visualization line chart using the D3.js library and Vector graphics which gave the user the ability to easily visually appreciate large data sets which in this case is data that represents the top 5 crypto currencies.
- Engineered custom navigation bar allowing users to select between multiple data sets by utilizing raw JavaScript ES6 to structure data to seamlessly and accurately work with the D3 library.
- Created user interactivity by taking advantage of D3's tool tip which gave users the ability to easily scroll over the chart and find critical information by just hovering over that data point.

EXPERIENCE

Technical Trader
Kershner Trading, LLC.   Oct 2015 - Jun 2016

- Analyzed Excel, lists, SPDR's, imbalances, statistics, and executed ideas shared, to improve trading performance
- Chartered internal proprietary data API's to buy /sell imbalances that gapped down to create trading opportunities
- Quantified risk /reward high short interest stocks greater than 30% of float, to execute scalping opportunities

EDUCATION

Syracuse University - *BS Entrepreneurship and Emerging Enterprises, Finance, Economics (tech focused), 2009-2012*
AppAcademy - Rigorous 1000+ hour software development course **2.6 % acceptance rate** 2019