K Y L E   U E H L E I N

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SKILLS

Proficient: Javascript, Typescript, Python, React.js, Redux, Webpack, Node.js, Express.js, PostgreSQL, Sequelize, TypeORM, CSS, HTML5, Git/Github

Knowledgable: GraphQL (Apollo), Flask, SQLAlchemy, SQLite, Mocha, Chai, Heroku

Some Experience: jQuery, SQL, .NET MVC, C#, Java, CircleCI, mongoDB, Mongoose

PROJECTS

Thumbs Up, *Sole Developer*   **Mar 19 - Present**

github.com/best-bet/thumbs-up-api

A public API that utilizes machine learning to A/B test thumbnails in production. The user submits various images associated to a single thumbnail. The when a thumbnail is requested, the API will provide one of the options. Data is then sent back to the API to help plot the distributions of popularity among the thumbnail options. During exploration, these distributions are calculated and refined, and during exploitation, the image with the highest distribution of clicks is utilized to minimize regret.

- Used Flask to design a light-weight RESTful API for quick prototyping and deployment
- Designed a React.js component library to facilitate interacting with the API
- Python, SQLAlchemy, SQLite, Multi-Armed Bandit algorithm, React.js

Data Search USA, *Sole Developer*   **July 18**

github.com/kuehlein/data-search-usa

A tool for creating custom queries to datausa.io and presenting the data. The user is able to preform complex API queries to datausa.io's API using an intuitive control panel. After applying filters to a dataset, the user can submit their query and browse a lazy-loaded table.

- Used Redux to manage a large amount of state in the control panel, as well as to assist with managing numerous edge cases and conditions.
- Certain queries can return millions of rows of data, so presenting the data with a lazy-loaded infinite-scroll table helped optimize the performance of the site as well as UX.
- React-Redux, React-Virutalized, Express.js, Cypress.io, CircleCI, datausa.io's API

Code Mode, *Team of 4 developers*   **Dec 17**

github.com/TheUniverseofCoding/world-of-code

A Chrome extension to provide a coding platform to facilitate tech education. In a dynamic skin rendered inside of the DOM of Youtube, the user has access to a fully functional repl, complete with user generated questions and boilerplate to assist them while they watch instructional videos on software development and coding. The Chrome extension communicates with an external API to receive the data for a given URL. A user can create, read, update and delete content that they have permissions with on the current URL.

- Agile methodology, regular stand-ups, waffle.io (SCRUM board) utilized.
- Managed the various states of the application and the permissions using Redux, and orchestrated the coalescence of the application.
- Created most of the external API, as well as the corresponding Redux thunks.
- Designed, organized, implemented and styled the UI strategically with limited space.
- React-Redux, PostgreSQL, CSS, Sequelize, Express.js, Mocha, Chai

OPEN SOURCE

DefinitelyTyped, *types/webpack*   **Oct 18**

https://github.com/DefinitelyTyped/DefinitelyTyped/

DefinitelyTyped, *types/node*   **Jan 19**

https://github.com/DefinitelyTyped/DefinitelyTyped/

EDUCATION

Fullstack Academy, *New York, NY*

- Selective (<8% acceptance rate) 17 week, 500+ hour program
- Full-stack Javascript web development