

KYLE UEHLEIN

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SKILLS

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

Knowledgeable: GraphQL (Apollo), Mocha, Chai, Cypress.io, Heroku, Bootstrap

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

PROJECTS

[currently untitled], Sole Developer

Jan 19 - Present

github.com/kafsi/healthcare-provider-burnout

A tool for the statistical analysis of healthcare provider burnout. Subjects the in study record journal entries on a daily basis using the interface provided. Machine Learning powered sentiment analysis processes these entries with respect to the Maslach Burnout Inventory. Statistical analysis is then made possible for researchers using an interface to make complex API queries with data visualization.

- Used GraphQL to simplify complicated api queries for statistical analysis as well as to minimize the amount of data sent and received over user's mobile devices.
- Incorporated Webpack as a middleware to serve the bundled files to the client for use with Hot Module Replacement as well as handling Typescript transpilation to Javascript.
- React.js, PostgreSQL, GraphQL, Express.js, Webpack, Typescript, Jest, TypeORM

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-Virtualized, 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
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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