Elias Eichen

Software Engineer

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[Portfolio](#)   [LinkedIn](#)   [Github](#)

Greater St. Louis Area

Profile

Highly adaptive software engineer with previous roles in warehouse and customer service fields seeking fast paced collaborative team environment to showcase and further develop my programming skills. I bring a passion for learning and experience with creating full-stack web applications in an agile workflow and quick turnarounds. I look forward to contributing my abilities to your team.

Skills

Frontend: Javascript, React, Redux, HTML5, CSS3   **Frameworks/Tools:** Docker, SocketIO, Git

Backend: Express, Sequelize, Python, Flask, SQLAlchemy, PostgreSQL **Other:** Java, C++, TDD

Technical Experience & Projects

KwKr (JavaScript, React / Redux, Python, Flask / SQLAlchemy, HTML, CSS, Docker, PostgreSQL)   Live Site | Github
A password generating web application
- Devised constraints, linked with generators in the **PostgreSQL** database, to provide specific password generators displayed with **React**, in order to store unique data for creating passwords and all allowing users to set password parameters.
- Engineered a custom password construction algorithm with **Python's** seeded random function to generate passwords based on constraints.
- Built a generator search using a **React** controlled input and **SQLALchemy** queries so the user can find their generators quickly.

Harmony(JavaScript, React / Redux, SocketIO, Flask / SQLAlchemy, , HTML, CSS, Docker, PostgreSQL, AWS)   Live Site | Github
A Discord clone which allows people to chat in real time
- Incorporated an **AWS** bucket that allows users to host images uploaded by the user directly to the site.
- Leveraged the **SocketIO** library to provide for live messaging allowing users to chat with each other in real time.
- Designed a direct messaging system by developing **SQLAlchemy** models and associations; connecting users to chat privately.
- Implemented a notifications feature where an HTML element is displayed if the user has unread or new messages in the Redux store in order to promote consistent user engagement.

Stratagem (JavaScript, React / Redux, Express , HTML, CSS, Bcryptjs, Sequelize, PostgreSQL)   Live Site | Github
A note taking app for writing down problem solving strategies
- Created clickable, Manual **React** components so users can organize their stratagems and load them into the **Redux** store.
- Devised a **Sequelize** search query which simultaneously searches both Manuals and Stratagems, allowing users to easily filter through them.
- Introduced Stratagem note components,which allows users to write text using **React** controlled inputs and add an image.
- Formulated autosave functionality by applying a **React use effect hook** and a **JavaScript** set timeout to save the changes to user inputs after a set inactivity period so the user's changes are automatically saved.

Taskd (JavaScript, Express , HTML, CSS, Bcryptjs, Sequelize, PostgreSQL)   Live Site | Github
A todo-list app inspired by Remember the Milk
- Utilized **Bcrypt** to hash user passwords for storage on the **PostgreSQL** database in order to ensure user security.
- Introduced user-associated lists which are displayed and changed using **Javascript** to allow for more dynamic user interaction.
- Implemented CRUD functionality for tasks which are changed by directly manipulating the DOM using **Javascript** and then sending the new or changed information to the backend in a POST or PUT request to the **Express** server.
- Designed a search bar feature which will search either the user's tasks or lists using a **HTML** select and a Sequelize Query by sending the user's input in a GET request to the **Express** Server.

Education

App Academy - Jan 2021 - June 2021
Immersive software development course with focus on
full-stack web development.

Missouri Tech - Aug 2014 - July 2015
Pursued coursework in, basic-advanced C++ and Java.

Certifications

Oracle certified Associate, Java SE 7 Programmer - Dec 2015
CIW User Interface Designer - Mar 2018
CIW Advanced HTML5 & CSS3 Specialist - Nov 2017
CIW Site Development Associate - Oct 2017