

# Elias Eichen

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# Software Engineer

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

Greater St. Louis Area

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## 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.

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## Skills

**Frontend:** Javascript, React, Redux, HTML5, CSS3

**Frameworks/Tools:** Docker, SocketIO, Git

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

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## Technical Experience & Projects

**KwKr** (JavaScript, React / Redux, Python, Flask / SQLAlchemy, HTML, CSS, Docker, PostgreSQL)

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*A password generating web application*

- Engineered a custom password construction algorithm with **Python's** seeded random function to consistently generate passwords based on constraints.
- 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.
- 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)

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*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.
- 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.
- Designed a direct messaging system by developing **SQLAlchemy** models and associations; connecting users to chat privately.

**Stratagem** (JavaScript, React / Redux, Express , HTML, CSS, Bcryptjs, Sequelize, PostgreSQL)

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*A note taking app for writing down problem solving strategies*

- 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.
- 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.

**Taskd** (JavaScript, Express , HTML, CSS, Bcryptjs, Sequelize, PostgreSQL)

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*A todo-list app inspired by Remember the Milk*

- 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.
- Utilized **Bcrypt** to hash user passwords for storage on the **PostgreSQL** database in order to ensure user security.

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## 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.

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## 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