

Elias Eichen

Email: eliprof@live.com

Phone: (618) 550-1706

Software Engineer

[Portfolio](#)

[LinkedIn](#)

[Github](#)

Greater St. Louis Area

Skills

Frontend: Javascript, React, Redux, HTML5, CSS3, Vue, Angular

Backend: Express, Sequelize, Python, Flask, SQLAlchemy, PostgreSQL, Hapi, Grails, Objection, OracleDB

Frameworks/Tools: Docker, SocketIO, Git, Node, Jenkins

Other: Java, Groovy, C++, TDD, PLSQL

Technical Experience & Projects

Work Experience

Associate Software Developer at World Wide Technology - Sep 2021 - Present

Full-Stack

- Maintained and updated applications, both frontend and backend, in **Angular**, **Grails**, **OracleDB**, and **Node** to add new user requested functionality.
- Performed support duties by answering user questions and solving application errors that they may have encountered.
- Broke down monolith applications into microservices to better focus our applications and write them in a more efficient manner.
- Created new microservice applications in **Vue 3** for frontend, and **Node** with **Hapi** and **Objection** for backend and deployed using **Jenkins**.
- Led the charge and wrote documentation for upgrading from **Vue 2** to **Vue 3** to help other developers upgrade when needed.
- Mentored an intern to completely rebuild an **Angular** frontend application in **Vue 3**.
- Constantly innovated new possibilities for automation by creating POCs such as a **Machine Learning** driven suggestion engine.
- Served on a sub-team dedicated to providing pathways for teams to efficiently upgrade applications across the company.

Personal Projects

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

[Live Site](#) | [Github](#)

A password generating web application

- Engineered a custom password 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)

[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.
- 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)

[Live Site](#) | [Github](#)

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)

[Github](#)

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.

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