

# GABRIEL LAGUERRE

## FRONT END SOFTWARE ENGINEER

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### SKILLS

**LANGUAGES:** Javascript, Python, HTML, CSS, SQL

**FRAMEWORKS & LIBRARIES:** Flask, Express, Sequelize, SQLAlchemy, Redux, React

**OTHER TOOLS & TECHNOLOGIES:** AWS S3, Docker

### PROJECTS

**IVY - inventory management app** (ReactJS, Redux, PostgreSQL, Python, Flask, HTML, CSS)

[live](#) | [github](#)

*An inventory management web app for production facilities that allows them to have real-time access to the state of their inventory*

- Implemented easy and fast navigation to important tables and data, using novel UI design with CSS Table, to provide the user with a better intuitive experience.
- Accomplished signature capabilities on forms using HTML Canvas and FormData on the frontend and signature storage on AWS S3 on the backend to provide valid form signing capabilities
- Achieved successful data viewing and navigation for the frontend by applying both declarative and imperative mappings in the backend for faster retrieval of relevant data
- Created two custom user level authentication measures, each with different access level capabilities, through auth routes in the backend and custom user separation code in the frontend to limit user data manipulation

**Ramble - social media app** (ReactJS, Redux, PostgreSQL, Python, Flask, HTML, CSS, AWS S3)

[live](#) | [github](#)

*A social media web app inspired by Tumblr*

- Created a single page reactive web app experience using React and ES6 best practices to allow a user to repost the post of other users.
- Provided the capability to store an image by using AWS S3 in the backend to guarantee to a user that the image that they upload for a post will always be available when other viewers read their post.
- Streamlined the comments component utilizing Redux's one-way state management to allow a user to click on the comments tab to add, delete, or update their comment on the current post.

**Get2Gether - social media app** (ReactJS, Redux, PostgreSQL, Javascript, Express, HTML, CSS)

[live](#) | [github](#)

*A Meetup clone that allows users to create and join groups and attend events*

- Verified the entry of data types date and time in the backend using custom validation functions to ensure correct data storage in the database and assuring the user has created a valid event.
- Custom designed delete modals using React context to provide the user with another opportunity to think about deleting a group or an event.

### EXPERIENCE

#### Founder

*Opogy llc*

Jan 2020 - Present

- Mobilized a team of coders to create a personal finance app for Android and iOS devices and gaining 1000 downloads per month
- Developed a database to manage production and quality control data for manufacturing clients using google drive resulting in increased efficiency and better decision making

#### Plant Manager

*Gaz Industriels Associes S.A.*

Jan 2010 - Nov 2019

- Expertly programmed adjustments to gas dryers, absorbers, refrigeration units, compressors, and distillation unit liquid flows, generating 5% increase in overall plant efficiency and significantly reducing energy costs.
- Project leader in completing the electrical and mechanical installation of a \$4 million liquid carbon dioxide production plant in collaboration with a Danish engineering company.

## EDUCATION

**Software Engineering** - *App Academy (Rigorous 1000-hour software development course with <3% acceptance rate)* | October 2023

**Masters in Innovation and Technological Entrepreneurship** - *UMass Lowell* | 2013 - 2018

**BS in Chemical Engineering** - *University of Puerto Rico (RUM)* | 1995 - 1999