

# Christopher **Regan**

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# Software Engineer

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**SKILLS**    JavaScript, Java, Babel, Webpack, Jinja, React, Redux, AWS S3, Python, PyTest, RestAPI, GraphQL, Django, Flask, *SQL-alchemy*, *Google Maps API*, *Sequelize*, *Bash*, Postgresql, MongoDB, CSS, HTML, Docker

## EDUCATION

### **AppAcademy - Full Stack Web Development**

Graduated 2021

- 1000+ hour immersive software development program focusing on **full stack web development**, **pair programming**, coding fundamentals and best practices. Relevant coursework included: **Object Oriented Programming (OOP)**, Test Driven Development (**TDD**), **data structures**, **algorithms**, systems design & architecture, **Agile/SCRUM** methodologies.

### **Gettysburg University - BS Computer Science**

2014-2018

## TECHNICAL EXPERIENCE & PROJECTS

### **React / Redux Developer - Pocket Network**

Sept 2021 - Current

- Designed, developed, and tested a custom **React / Redux user interface** to improve uptime of a live network of node validator servers running a utility blockchain that processes **1,000,000s of dollars** of transactions per year.
- Implemented production in a **Test Driven Development** cycle using the **Selenium** framework that required the code worked before being deployed to a mission critical role.
- Integrated quickly into a **large scale** development environment by understanding what wasn't understood and communicating concisely to senior engineers to get up to speed.
- Deciphered legacy **Bash** scripts in order to integrate modern frameworks that simplify the process of server support by
- Adhered to strict **Cyber-Security** protocols including **cryptography**, VPNs, and network quarantining to protect company intellectual property and the financial information of users.
- Ensured the integrity of 1500 parallel **MongoDB** databases by running scripts to compare the contents of each, and if necessary to delete and recopy data to retain the integrity of the network.

### **Git There** | Personal Project using: *React / Redux, Python / Flask, AWS S-3, SQL-alchemy*

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

*Full Stack web application focusing on productivity and task management throughout the job search.*

- Created streamlined workflow (developed from **user stories**) emphasizing **intuitive** and **responsive** data entry methods by enabling forms with multiple submission types by using switch case logic on state variables changed by every submission button.
- Designed the **Redux** state to update in a way that is both efficient and feels fluid by only performing networked actions when absolutely necessary and presenting a user interface that evolves without page reload.
- Enhanced usability and engagement by building **3 various systems** to change the "status" of a given application to allow users to be flexible in the way they interact with their data.
- Enabled a **dark mode toggle** on the navigation bar by wrapping the application in a **React** color context provider allowing all colors to be applied inline by keying into the one color object.
- Coded **AWS S3** integration to save specific versions of application documents used for a job and download them later if needed, simplifying the data organization process and allowing for **scalability**.

### **Local Plates** | Group Project using: *React / Redux, Flask, Google Maps API, AWS, ReactIP-API, SQL-alchemy*

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

*Full Stack web application - Clone of "Open Table".*

- Implemented nested **React components** to create card scrolling mechanics and immediate search filter functionality.
- Integrated an **IP API** within **React** to achieve approximate location of a user enabling a **PostGIS** query in the **Flask** backend to sort restaurant results by distance to the user.
- Seeded **120** real restaurants with accurate coordinate data, 10 reviews, > 3 tags, and 5 photos attached. This massive amount of seed data required **API** calls to the **Google Maps API** done progressively in a loop with error handling.
- Generated > **1000** reviews quickly by applying a Flask seeder to loop through every restaurant entry and apply 10 random reviews to it.

## ADDITIONAL EXPERIENCE

### **Personal Trainer - Gold's Gym**

June 2018 - Oct 2019

- Worked with a **diverse** range of clients with different goals and after finding what they wanted out of a fitness program tailored a custom routine to fit their needs.