

# CHRIS READ

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[PORTFOLIO](#)

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## SKILLS

Javascript - Python - PostgreSQL - HTML - CSS - React - Redux - Express - Node.js - Sequelize - Flask - SQLAlchemy - Docker

## PROJECTS

### LOVELOCK

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

*Mobile web application pointing each of two users towards the other through a compass interface.*

- Integrated OpenWeatherMap and GeoDB Cities APIs in a dynamic algorithm matching two users based on a unique URL, and generating compass directions from one user to the other, to present weather and city data on “lock.”
- Harnessed the Sensors API to employ device orientation via an event listener in order to capture a mobile device’s compass direction and display compass direction based on the authenticated user.
- Utilized the navigator object in conjunction with SQLAlchemy and a Flask backend to store user geolocation data via a CRUD operation in a PostgreSQL database to later calculate compass bearing.

### OPENBAR

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

*OpenTable-inspired web application to search, review, and make reservations at bars.*

- Leveraged Redux within a React frontend to store and access bar information, such as hours of operation and user reviews, to enhance user experience of detailed bar information. Further used Redux to dynamically present and update logged-in user review data as placeholder values to an update review form for ease of use.
- Incorporated React Google Map with props to render a map displaying bar geolocation on each bar homepage to improve the user display of critical bar details.

### GOODLAUGHS

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

*GoodReads-inspired web application to save, rate, review, and share jokes.*

- Extended express-validator to create server-side custom validators for user login, signup, and joke form data to be rendered dynamically through a PugJS template and allow users to conveniently diagnose submission errors.
- Managed user authentication with the Express request object after a confirmatory Sequelize query to a PostgreSQL database to allow the creation of unique user profiles with protected data.

## EXPERIENCE

### Founder

Jan 2020 - Jul 2020

Algorithmic Trading

- Applied websockets and asyncio to securely ingest financial market data after authenticating with splinter and urllib, delivering payloads with pycpg2 to a PostgreSQL database to permit live order execution and strategic backtesting through a custom CLI stock terminal.

### Data Scientist

Oct 2018 - Dec 2019

Brex

- Owned and built a python and PostgreSQL system to manage new customer attribution, participating in over 50 weekly senior executive meetings fielding questions from the entire leadership team.

### Independent Researcher

Jun 2017 - Sep 2018

Research

- Employed selenium and beautifulsoup to pull cryptocurrency trading data, enabling automatic data analysis via numpy and pandas to discover financial arbitrage opportunities across multiple cryptocurrency exchanges.
- Wrote over 100,000 words while researching 10 leading technological fields.

## EDUCATION

App Academy || Full Stack Software Engineering Program

Sep 2020 - Feb 2021

Harvard University || BA History

Aug 2013 - May 2017

- GPA 3.719/4.0 (cum laude) - Friedman Family Harvard College Scholar
- Computer Science Courses: Introduction to Computer Science - Introduction to Data Science - Machine Learning