

ROMAN BARBALAT

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[LinkedIn](#)

[GitHub](#)

[Portfolio](#)

SKILLS

JavaScript, Python, React, Redux, Express, Flask, Sequelize, SQLAlchemy, AWS S3, PostgreSQL, SQLite3, Socket.IO

PROJECTS

Gulp

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

A soft yelp clone featuring businesses, reviews, favorites and replies to reviews.

- Built the frontend with React in order to create an application that is interactive, dynamic, efficiently rendered and composed of reusable components.
- Implemented state management with Redux in order to share state between unrelated components, maintain data coming from a database and simplify debugging with Redux DevTools.
- Incorporated Amazon Web Services (AWS) S3 into the application for image uploads in order to improve the user experience while also improving the security and reliability of image file storage.
- Implemented a RESTful API to connect the frontend with the backend and provide scalability, flexibility and independence.
- Designed the underlying structure of the database and deployed it with PostgreSQL in production while using SQLite3 in development.

Cypher

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

A soft slack clone that allows users to interact with one another through direct messages and public channel posts.

- Built the backend with Flask in order to create route functions that are clear, maintainable and efficiently interact with the application's database.
- Employed Socket.IO to incorporate WebSockets into the application in order to create the direct message and channel message features.
- Pair programmed in rotating groups of two as part of a four person development team. Refactored large chunks of code efficiently for both individual and team contributions.
- Utilized WTForms to validate user submitted data and generate error responses across multiple form fields in order to display validation errors to users upon form submission.

EXPERIENCE

Options Trader

May 2017 - Oct 2020

Marquette Partners

- Combined knowledge of recent order flow with volatility arbitrage to speculate on short term price changes in the natural gas options market.
- Served as an options market maker in the over-the-counter market while click trading in the electronic market.
- Single-handedly traded and risk-managed an options portfolio containing contracts with expirations up to four months away.

Options Trader

May 2010 - Apr 2014

Belvedere Trading

- Made markets in a wide variety of options markets including the natural gas, oil, gold and S&P 500 markets as a member of both small and large teams.
- Traded through over-the-counter brokers over the phone and instant messenger as well as in the electronic market by click trading, operating a mass quoter and an electronic eye.
- Founded the company's night desk and traded in all ten markets that Belvedere had a presence in at the time.
- Taught an introductory course on option theory to new hires and also taught trading on a one on one basis to those students who fell behind in their mock trading classes.

EDUCATION

App Academy - Twenty four week full-stack web development bootcamp

Feb 2023 - Aug 2023

Carnegie Mellon University - Master of Science in Computational Finance

Sep 2008 - Dec 2009

Carnegie Mellon University - Bachelor of Science in Mathematics

Sep 2004 - May 2008