Bret Rosen | Software Engineer

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SKILLS

Python, SQL, SQLAlchemy, Flask, PostgreSQL, JavaScript, React, Redux, Sequelize, Express, Pair Programming, Object-oriented Programming (OOP), Test-driven Development (TDD), Agile Web Development, Debugging, HTML, CSS

PROJECTS

Debate My Professors, *Full Stack Project* - React | Flask | Agile   [Live Link](#) | [GitHub Repo](#)
A clone of the website Rate My Professors populated by historical academics.
- Designed a database utilizing SQLAlchemy and the random module in Python to generate thousands of professors/courses and reviews.
- Added a debate feature using aggregate review data from the database which allows users to simulate a DnD style debate/combat.
- Created a search function accessing the Redux state to return results based on dynamic user input.

Foxtrot, *Full Stack Project* - React | Flask | Agile   [Live Link](#) | [GitHub Repo](#)
A clone of the website Robinhood.
- Employed version control via GitHub to collaborate with two other team members, using a modular approach to separate project features while maintaining best practices for Agile workflow.
- Implemented price charts with the Chart.js package to render dynamic graphs of stock prices.
- Incorporated the Finnhub API to display updated information about financial assets.

EXPERIENCE

Math and Physics Educator, *Numerade*   2020 - 2022
- Prepared students for undergraduate exams by explaining general problem-solving strategies and reviewing core concepts.
- Used a digital whiteboard and audio recording to engage students through visual, auditory, and reading/writing learning styles.

Line Cook, *Kado no Mise, Minneapolis*   2018 – 2020
- Executed preparation and presentation of high-quality Japanese dishes, ensuring kitchen standards were met while maintaining ticket times under ten minutes.
- Communicated the status of current and future tickets to other team members while expediting and working other stations to ensure coordination and efficiency of team effort.
- Assisted in the creation and refinement of seasonal menu items to minimize waste and maximize quality.

High School Teacher, *Zibo Experimental High School, Zibo, China*   2011 - 2017
- Effectively taught courses in math, science, computing, and English, catering to varying levels of English proficiency, resulting in improved academic performance and language skills.
- Developed a cloud-based grading system and trained staff in its use as student registrar, increasing parent engagement and improving school record-keeping.

EDUCATION

Certificate in Full Stack Development, App Academy   2023
Bachelor of Science in Engineering, Harvey Mudd College