# Bret Rosen | Software Engineer

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## SKILLS

Python, SQL, RESTful APIs, SQLAlchemy, Flask, PostgreSQL, JavaScript, React, Redux, Node.js, 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 PostgreSQL database in production utilizing SQLAlchemy in development and leveraging 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