

Bret Rosen | Software Engineer

Minneapolis, MN | bretrosen@gmail.com | [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

SKILLS

Python, SQL, SQLAlchemy, Git, PostgreSQL, JavaScript, React, Redux, RESTful APIs, 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 SQL-compatible database in SQLAlchemy that allows users to review professors and courses.
- Added a debate feature that allows users to simulate a DnD style debate/combat using aggregate review data.
- Utilized the random module in Python to generate a robust database of professors/courses and reviews.

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

Educator

2020 - 2023

Numerade

- Prepared students for exams in undergraduate physics and math, using a digital whiteboard to explain general problem-solving strategies and review core concepts.

Line Cook

2018 - 2020

Kado no Mise, Minneapolis

- Executed preparation and presentation of high-quality Japanese dishes.
- Assisted in the creation and refinement of seasonal menu items to minimize waste and maximize quality.

High School Teacher

2011 - 2017

Zibo Experimental High School, Zibo, China

- Effectively taught courses in math, science, computing, and English, catering to varying levels of English proficiency, resulting in improved academic performance and language skills.
- As student registrar, developed a cloud-based grading system and trained staff in its use, increasing parent engagement and improving school record-keeping.

Professional Online Poker Player

2006 - 2010

- Consistently achieved profitable results over 500,000+ hands of No-Limit Texas Hold'em 6 max cash games.
- Tracked all hands played with a PostgreSQL database to analyze data and review hand histories.

Systems Engineer

2003 - 2005

Federal Aviation Administration, Oklahoma City

- Successfully oversaw the procurement and installation of ILS systems across 10 airports.
- Developed a streamlined documentation system, reducing report generation time by 30%.

EDUCATION

Certificate in Full Stack Development, App Academy

2023

Bachelor of Science in Mechanical Engineering, Harvey Mudd College