

# Bret Rosen | Software Engineer

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

## SKILLS

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Python, SQL, JavaScript, React.js, Redux, Node.js, Git, HTML, CSS, RESTful APIs, Agile Methodology, Debugging, Pair Programming, Object-oriented Programming (OOP), Test-driven Development (TDD)

## PROJECTS

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**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.
- Used RESTful API conventions with Flask on the backend and React on the frontend to create efficient and standardized routes, ensuring seamless data flow through the application.
- 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

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**Software Developer – AI Trainer, DataAnnotation.tech**

2023 - Present

- Trained AI in languages including Python, JavaScript, HTML, and SQL.
- Tested experimental large language models by generating prompts for code generation and analyzing previously generated prompts, evaluating code quality for correctness and performance.
- Optimized performance of models by correcting mistakes in code and documenting comparisons between different models.

**Online STEM Tutor, Numerade**

2020 - 2022

- Conducted virtual tutoring sessions for undergraduate STEM courses by explaining problem-solving strategies and reviewing core concepts in subjects including Python, calculus, and mechanics.
- Demonstrated proficiency in adapting teaching methods to suit individual learning styles, resulting in improved comprehension and academic performance by students.
- Utilized various online platforms and tools to facilitate virtual learning, including video conferencing, interactive whiteboards, and collaborative document sharing.

**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

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**Certificate in Full Stack Development, App Academy**

**Bachelor of Science in Engineering, Harvey Mudd College**