

# Bret Rosen | Software Engineer

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## SKILLS

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Python, SQL, JavaScript, React.js, Redux, Node.js, Git, HTML, CSS, RESTful APIs, Agile Methodology

## EXPERIENCE

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**Software Developer – AI Trainer, DataAnnotation** 2023 - Present

- Train large language models (LLMs) in languages including Python, JavaScript, HTML, and SQL.
- Evaluate LLMs for performance, significantly improving response correctness.
- Advance LLM optimization through prompt engineering, documenting key model differences.

**STEM Tutor, Numerade** 2020 - 2022

- Conducted virtual tutoring sessions in Python, calculus, and mechanics, boosting student comprehension and performance.
- Tailored teaching methods to individual learning styles, markedly improving academic outcomes.
- Leveraged video conferencing and interactive tools to enhance virtual learning experiences.

**High School Teacher, Zibo Experimental High School, Zibo, China** 2011 - 2017

- Taught computing, math, and science, significantly raising students' academic and language skills.
- Created and implemented a cloud-based grading system, increasing parent engagement and streamlining records.

## 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, allowing users to simulate a DnD style debate.
- 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.

**NYC Yellow Taxi Analysis, Data Analysis Project - DuckDB | Pandas | Power BI**

*Exploration and analysis of the profitability of taxi operation in NYC.*

- Extracted data for 38 million taxi rides from 2023 to a Parquet file using DuckDB.
- Transformed data through exploratory data analysis, cleaning, and imputation with Pandas.
- Loaded dataset into a Power BI dashboard to provide insights into taxi analytics.
- Created a report detailing recommendations for most profitable pickup neighborhoods and times using a KPI based on fare and trip duration.

## EDUCATION

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

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