Bret Rosen

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SKILLS

Python (Pandas, NumPy), JavaScript, SQL, React.js, Redux, Git, AWS (S3, EC2), RESTful APIs, Agile Methodology

EXPERIENCE

Webmaster, *South Dakota Music Teachers Association*   July 2024 – Present
- Modernize website by adding SSL certificate and mobile optimization using Bootstrap, CSS, and JavaScript.
- Monitor website traffic with Google Analytics and Search Console to optimize SEO and user engagement.
- Troubleshoot and resolve technical issues related to website functionality and hosting.

AI Trainer, *DataAnnotation*   December 2023 - Present
- Train large language models (LLMs) in languages including Python, JavaScript, and SQL.
- Evaluate LLMs for performance, significantly improving response correctness.
- Advance LLM optimization through prompt engineering, documenting key model differences.

STEM Tutor, *Numerade*   September 2020 – December 2022
- Tutored 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*   September 2011 – June 2017
- Taught computing, math, and science courses to ESL students, preparing them to study abroad.
- Utilized a computer lab to conduct classes of 15 to 25 students, focusing on digital literacy skills including Word/PowerPoint, Excel/Access, and graphic/web design.
- Implemented a cloud-based grading system, increasing parent engagement and streamlining student record management.

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.
- 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.
- Utilized AWS S3 Buckets to host and maintain images, ensuring high availability and scalability.

Foxtrot, *Full Stack Project* - React | Flask | Agile   [Live Link](#) | [GitHub Repo](#)
A clone of the website Robinhood.
- Organized and led sprint planning, facilitating Agile workflow and ensuring project MVP was delivered within the required two-week timeframe.
- Employed version control via GitHub to collaborate with team members, using a modular approach to separate project features.
- 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.

EDUCATION

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