

# Seth Metcalf

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## EDUCATION

### University of California, Berkeley

*BA in Data Science, Economics*

August 2020 - May 2024

*Berkeley, CA*

- Relevant Coursework: Principles of Data Science, Statistical Prediction and Machine Learning, Concepts of Statistics, Concepts of Probability, Data Structures, Investments, Econometrics.

## EXPERIENCE

### Full-Stack Developer

*[AI Company]*

January 2025 - Present

*San Francisco, CA*

- Curated web-app data sets, purposefully injecting good and bad examples to boost internal model pass-rates; significant improvements on internal quality benchmarks.
- Reviewed hundreds of React/Next.js/FastAPI codebases produced by the model, diagnosing state-management performance, accessibility issues, and modern development practices. Diagnosed and determined bug fixes for libraries: Django, sympy, scikit-learn, and others.
- Led onboarding & quality reviews for over 200 contributors (10-person core team); created onboarding documents and led workshops, which shortened average onboarding time and reduced submission re-work by 30%

### Data Scientist/Finance Intern

*Berkshire Hathaway Homestate Companies*

June 2023 - May 2024

*San Francisco, CA*

- Saved the company \$15k/month by using analysis of my automated reports to cut unnecessary usage of corporate cars and phones.
- Utilized Databricks to explore various LLM tools used in the organization; set up LLMs, including BART, Llama, MPT, Vulcan, etc., to be used locally in order to protect client data.
- Tested prompt engineering to explore several proofs of concept use cases such as loss run predictions, categorization, cleaning, legal predictions, etc.
- Programmed a sentiment analysis system in Python for company emails between trusted clients, involving data cleaning, filtering, SQL, and sentiment analysis models; presented findings in PowerBI.

### Full-Stack Developer, Founder

*GFXTheory LLC*

August 2017 - December 2024

*Remote*

- Founded a design company that initially drew clients in the gaming space and eventually began contracted work for larger, more established companies (> 50 Employees).
- Contracted reoccurring design and development work for major real estate, freight, gaming, and tech companies, working in React, Javascript, HTML, CSS, Tailwind, Typescript, and other industry standards when needed.
- Expert level experience and understanding of website design, client usability, and modern development practices.

## PROJECTS

### AI Poker Bot | TypeScript, Node, Express, Puppeteer, SQLite

- Makes actions for the user on <https://www.pokernow.club/> using Poker theory and LLMs: ChatGPT and Gemini.
- Scrapes using Puppeteer and pulls action logs from the PokerNow API to continuously analyze the live game.
- Formulates a query using the model, feeds it through the selected LLM, and parses through the generated text to reach a decision for the user which is executed automatically by the webdriver.
- Updates a SQLite database storing player data by username, utilizing Poker statistics for personalized decisions.

## EXTRACURRICULAR

### Competitive Coordinator/Head Coach

*Cal Esports*

August 2021 - May 2024

*Berkeley, CA*

- Joined August 21' as a Coach and managed the Varsity team at Cal; involved gameplay analysis and leadership.
- Synchronized with staff and colleges regarding various sponsorship events, tournaments, and management needs.

## SKILLS

**Languages:** English (Fluent), Spanish (Fluent)

**Programming:** Python, Java, C, SQL, JavaScript, HTML/CSS, R, Typescript

**Tools:** Azure DevOps, Snowflake, MySQL, Databricks, Git, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Google Apps, Microsoft Office Suite, PostgreSQL

**Libraries/Frameworks:** pandas, NumPy, Matplotlib, PyTorch, PySpark, TensorFlow, Tailwind, React, Node.js, Django, RESTful APIs