Michael Haroon

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EDUCATION

UC Berkeley – *BA, Applied Mathematics*   *May 2024*

    Classes: Statistics, Probability, Deep Learning for Computer Vision, Data Structures

TRADING PROJECTS

SI-SGR Analysis: Analyzed and tested correlation between silver futures and silver-gold spot ratio.
(https://michael-haroon.github.io/blog/SI-SGR)

Options Analysis: Analyzed delta-neutral hedging mistake in my personal margin portfolio.
(https://michael-haroon.github.io/blog/first-hedge)

WORK

Outlier.ai | *Math Trainer* | *Remote*   *Aug 2024 – Dec 2024*
- Trained AI models by guiding them through reasoning problems and flagging inappropriate outputs.

Adesnik Laboratory | *Research Intern* | *Berkeley, CA*   *Jan 2023 – Jul 2023*
- Interpreted 200,000+ trials to reduce subject failure, increasing success rate from 30% to 80%.
- Built a scalable data visualization algorithm in Python (scikit-learn, pandas, matplotlib), decreasing time to prepare presentation from 15 minutes to 3 minutes.
- Collaborated with the research team to present data findings, incorporate feedback, and adapt the approach to align with evolving research goals.

Berkeley Information Technology | *Student Technician* | *Berkeley, CA*   *Sep 2022 – Dec 2022*
- Provided support to faculty, addressing concerns and providing clear communication of actions taken.
- Developed documentation and training materials to reduce risk of mistakes for future employees.

Long Beach City College | *Tutor* | *Long Beach, CA*   *Sep 2021 – Apr 2022*
- Adapted tutoring approaches to diverse client needs and defused high-stress situations, leading to students succeeding in class with at least a B+ grade.

OPEN SOURCE CONTRIBUTIONS

TransformerLab: Worked with the team on a settings feature and merged my .gitignore changes.
(https://github.com/michael-haroon/transformerlab-app)

Hugging Face smol-course: Supervised fine-tuning, preference optimizations, LoRa adapters.
(https://github.com/michael-haroon/smol-course).

PROFESSIONAL DEVELOPMENT

Y Combinator AI Startup School: Only for top tech students and graduates; granted $25,000 in AWS credit.

US Cyber Quest Competition: Ranked 81st (top 4%) in a national cybersecurity contest.

Honors Transfer Council of California: Analyzed and presented homelessness data using Excel to stakeholders.

LEADERSHIP

UC Berkeley EECS Department | *Lab Mentor* | *Berkeley, CA*   *Sep 2022 – Nov 2022*

Academic Research Club | *President* | *Long Beach, CA*   *Sep 2020 – Apr 2022*

Hiring Committee | *Student Representative* | *Long Beach, CA*   *Feb 2022 – Mar 2022*

TECHNICAL SKILLS

Python (pandas, scikit-learn, matplotlib, NumPy), Excel, Java, TypeScript, SQL, Github, Unix/Linux