

Haitian(Enoch) Liu

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EDUCATION

Harvard University

MS, Data Science (Cross-registration at MIT)

Cambridge, MA

Aug. 2022 - May. 2024

University of California, Berkeley

BA, Applied Mathematics; BA, Data Science

Berkeley, CA

Aug. 2019 - Dec. 2021

Courses: Machine Learning, Deep Learning, Computer Vision, Probability Theory, System Development, Visualization

EXPERIENCE

ByteDance [AI Agent | Unit Test Generation | Go | Python]

AI Product Manager

Hangzhou, CN

Apr. - Jul. 2025

- **Optimized the internal AI unit test generation agent** by designing a standardized evaluation framework (compilability, executability, coverage, validity, readability) and building a **50+ issue tagging and attribution system** to distinguish model vs. engineering issues, accelerating iteration with algorithm and infra teams. Increased **unit test usability from 29% to 78%** and **adoption rate by 40%**, enabling company-wide rollout of the AI agent and driving **400% user growth**
- **Led the design and delivery of an evaluation task management platform**, owning the PRD and coordinating across product, algorithm, and engineering stakeholders. Enabled teams to flexibly configure evaluations (e.g., models, online user datasets, offline benchmark datasets, concurrency, repair iterations) and automated workflows for task triggering, issue tagging, and key metrics reporting, **reducing the evaluation cycle from 5 days to 2 days**
- **Established an online performance dashboard** with four core metric systems (test quality, adoption, contribution, issue attribution), creating an end-to-end monitoring loop from test generation quality to business value. Enabled **real-time and historical anomaly detection** (e.g., user adoption, model latency, pipeline stability), allowing cross-functional teams to detect and resolve issues faster, while providing operations with insights to better align the AI agent with developer needs

Harvard Business School [Database | Python | MySQL | Stata | JavaScript | HTML]

Research Associate on Impact Investments Project

Cambridge, MA

Feb. 2024 - Present

- Optimized ETL pipelines for data transformation and consolidation in PCRI database, resolving discrepancies from varied data types across 30+ data vendors over 100,000+ private capital companies, achieving 98% data integrity
- Redesigned and developed Private Capital Research Institute (PCRI) website via HTML5, JavaScript and CSS

Nock Lab, Harvard University [LLM | PyTorch | HuggingFace]

Research Assistant Supervised by Ph.D. Yaniv Yacoby and Taylor McGuire

Cambridge, MA

Sep. - Dec. 2023

- Curated the first benchmark dataset for detecting LLM-generated text in mental health surveys through human subjects simulation using LLMs, text augmentation and rigorous quality validation
- Developed tree-based, transformer-based, and few-shot in-context learning models for LLM text detection, enhancing survey data quality and achieving 96.2% test accuracy
- Presented at *Women in Data Science Conference 2024* to hundreds of professionals from industry and academia

YunExpress USA [Python | GeoPandas | Tableau | HTML | Google Apps Script]

Data Scientist

Vernon, CA

Apr. - Aug. 2022

- Developed a custom website for the Operations department, boosting data processing efficiency by 20%
- Built a pallet recycling tracking system and automated email solution, reducing costs by \$4 million annually
- Utilized data analysis and visualization techniques (e.g. Tableau dashboard, GeoPandas) on 24 million parcel records to improve the package delivery operations, resulting in a 1.2 days average reduction in delivery time

SKILLS

Product Skills:: Product Strategy & Roadmapping, Cross-functional Collaboration, Data-driven Decision Making

Programming Languages: Python, Java, SQL, R, JavaScript, HTML, CSS, MATLAB, Go, LaTeX

Platform & Tools: Git, Unix/Linux, Docker, Tableau, Jupyter Lab, R Studio, VS Code, PyCharm, IntelliJ

Libraries: PyTorch, TensorFlow, HuggingFace, pandas, NumPy, Seaborn, Matplotlib, Scikit-learn, D3.js, Bootstrap

Mentorship: Teaching Fellow for *AC 207: System Development* at Harvard University

Entrepreneurship: Founded Triple Six Group, supplying beauty products to 3000+ global SMEs via digital marketing