Samantha Leventis

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EDUCATION

STANFORD UNIVERSITY, Stanford, CA   Sept. 2021–June 2026
Master of Science in Computer Science (AI Concentration)
Bachelor of Science in Symbolic Systems (Neuroscience Concentration)
Combined GPA: 4.03

EXPERIENCE

Product Manager & Lead Developer, *Stanford SILICON-Unicode*   Jun. 2025–Present

- Managed and led the creation of novel CLDR acceleration tool — MILQSHAKE. Spearheaded full deployment with Unicode Consortium, advancing inclusion for 500+ low-resource languages .
- Engineered tool using LLMs, self-supervised ML techniques, and data-driven linguistic relationships to extract CLDR-relevant data from 50+ bilingual parallel corpora of low-resource languages. With 90% accuracy, MILQSHAKE increased data acquisition efficiency by over 80%.

Software Engineer, *Reverb LLC*   Nov. 2023–Aug. 2024

- Optimized and automated product testing with Selenium scripts, streamlining debugging, enhancing issue-identification rate by 100%, and boosting efficiency by 367%..
- Leveraged generative AI to optimize neuropsychology report generation, increasing customer productivity by over 100%. Conducted analytical performance summary of 10+ HuggingFace models to identify strategic, cost-efficient AI solutions for medical-document summarization.
- Applied prompt engineering, writing repository of 100+ LLM prompts. Employed Agile methods.

Digital Literacy & Development Project Manager, *Sree Vari Matriculation School*   Jun. 2022–Sept. 2022

- Led creation of full digital literacy and CS development program in a rural school of 250+ students in Panikkanur, India. Regularly met to communicate with teachers, parents, and Principal to ensure alignment with community needs and foster ongoing engagement.
- Installed computers, designed resource-adaptable curricula, and built beginner coding course. Taught 5 classes per day of 20+ students of heterogeneous educational and linguistic levels.
- Produced repository of educational resources to support student learning beyond the classroom.

Research Assistant, *Stanford Zeineh Laboratory of Radiology*   Mar. 2023–Jan. 2024

- Employed ITK-Snap application and cloud computing to analyze 100+ MRI scans. Conducted voxel-wise correlations and refined multimodal 2D-to-3D neuroimaging registration and segmentation, mapping MR imaging and histological data for Alzheimer's research.
- Co-authored 3 peer-reviewed publications in A*lzheimer's & Dementia* and *Imaging Neuroscience* — [DOI: 10.1002/dad2.70040, DOI: 10.1002/alz.092110, DOI: 10.1162/IMAG.a.106]

PROJECTS

Q&A Agent for Knowledge Extraction of Financial Models   Oct. 2024–Dec. 2024

- Designed innovative RAG pipeline & financial tool to bolster knowledge extraction and logical reasoning of financial data, attaining +108% accuracy and +143% knowledge extraction over GPT.
- Built conversational agent equipped with 5+ tools, including callable retrieval and CodeGen script.
- Produced the first Q&A dataset for financial modeling, examining five diverse public financial models to optimise use cases. Included 234 queries, answers, and complexity-based labels.

SKILLS

- Python, C, C++, SQL, JavaScript, React, User Interface Design, ML, LLMs, Startup Operations