Sarah Lorenzen

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SKILLS

- Ability to work independently and remotely
- Clear Technical Communication and Presentation
- Data Analysis: NumPy, Pandas, Hugging Face Datasets, PySpark
- LLMs: Transformers (Hugging Face), Langchain, Langgraph, OpenAPI, Vertex AI, Azure
- Natural Language Processing (NLP) and Transformer Models
- Python Programming for ML/AI
- Teaching and Mentoring others through project-based learning
- Vibe Coding: Replit, Cursor, Claude, ChatGPT, CoPilot

WORK EXPERIENCE

iMerit Technology   07/2025 – Present
AI Training Data Annotation Specialist • Contractor

Accurately generate, annotate, and label diverse datasets following detailed, project-specific guidelines.

- Review and validate annotations to ensure consistency, accuracy, and alignment with data ethics standards.
- Utilize annotation tools (e.g., Labelbox, Prodigy, etc.) and contribute to refining annotation guidelines and quality control processes.
- Identify, document, and report data quality issues, edge cases, and unclear scenarios to continuously improve datasets.

Extern, Outamation   07/2025 – 08/2025
AI-Powered Workflow Automation Externship

- Built modular AI-powered pipelines to process 200+ page mortgage blob files - combining OCR (Tesseract, PaddleOCR), PDF parsing (PyMuPDF), and RAG techniques for intelligent data extraction, classification, and search.
- Developed a document retrieval system using LlamaIndex and Retrieval-Augmented Generation (RAG), optimized for multi-document mortgage blobs. Enhanced precision through chunk tuning, metadata filtering, and evaluation of open-source LLMs like Mistral and Phi-2.
- Conducted end-to-end evaluation of the document intelligence system on 200+ page mortgage blobs-benchmarking OCR accuracy, RAG retrieval quality, and routing performance. Delivered a technical report outlining model trade-offs, optimization strategies, final deployment recommendations, and built a UI for demo purposes.

Amazon TenMarks Education   01/2015 – 01/2018
Lead User Experience & Accessibility Specialist

- Product & Curriculum-Inclusive design for a web-based, adaptive K-12 math program that included lesson plans, curriculum, and exercises for 7,000 school districts.
- Complete identity and asset redesign led to 27% licensed software sales increase
- Onboarded 7,500 new k-12 users to the learning lms platform post-launch

Designlab   01/2015 – 01/2017
Visual and UX Design Mentor   Online

Mentor/Teach students online in their Design 101, UX Research & Strategy, and UX Interaction Design courses.

- Mentored 1:1 30-50 students per session.
- Supplemented written instruction with projects and insight from specific relevant industry experience

Reliant Funding   **01/2014 - 01/2015**
Webmaster / Website Management

- Oversaw the day-to-day management, maintenance, and optimization of the company website, ensuring uptime, security, and optimal user experience across desktop and mobile platforms.
- Managed website content updates, landing page creation, and site navigation enhancements. Implemented SEO best practices, conducted keyword optimization, and improved site performance metrics, resulting in a measurable increase in organic traffic and engagement.
- Ensured website compliance with accessibility standards (WCAG), GDPR, and other relevant legal and organizational policies. Maintained and improved internal documentation for website procedures, style guides, and digital asset management.

PROJECTS

Faire Wholesale Marketplace Sales Analytics   07/2025 - 09/2025

Comprehensive analytics dashboard for Faire marketplace sellers. It provides business intelligence insights by analyzing sales data, customer behavior, and product performance. The application supports both live Faire API integration and sample data for testing purposes, offering interactive visualizations and key performance metrics to help sellers optimize their marketplace strategy.
Built with: Replit with Claude and ChatGPT, Python, StreamLit, and Vibe Coding.

Background Remover   07/2025 - 08/2025

An intuitive interface for removing backgrounds from images. The application uses an optimized OpenCV GrabCut algorithm with intelligent resizing and error handling to achieve reliable, high-quality background removal. Users can upload single images or process multiple images in batch mode. The app supports PNG, JPG, and JPEG formats and provides download options for individual images or bulk ZIP downloads. Features include a clean, user-friendly interface with drag-and-drop functionality, real-time processing feedback, and comprehensive batch processing capabilities optimized for fast performance without freezing.
Built with: Replit with Claude and ChatGPT, Python, StreamLit, and Vibe Coding.

Product Description Generative AI Chatbot   06/2025 - 07/2025

Custom generative text chatbot that can write unique on-brand product descriptions that speak to their unique audience while maintaining their existing voice. This will dramatically improve and speed up the product listing creation process. This solution provides a copy/paste-ready description that will require minor to no editing.
Built with: Python, OpenAI Responses API, Gradio, Huggingface, GitHub

EDUCATION

Master of Science - MS in Computer Science - Artificial Intelligence
Southern New Hampshire University   01/2025 - 01/2027
BASc in Business Administration and Management
University of Phoenix

CERTIFICATIONS

Artificial Intelligence - Learning Pathway   05/2025 - 07/2025
DataCamp
Introduction to Generative AI Learning Path   06/2025 - 06/2025
Google Cloud Skills Boost
ChatGPT Fundamentals Track   06/2025 - 06/2025
DataCamp
Vibe Coding 101 with Replit   01/2025 - 01/2025
DeepLearning.AI