Sasha Madden Ebersole

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Experience

DataAnnotation — Remote Sep 2026 – Present

Programming Analyst – AI Trainer

- Evaluate AI coding agents' performance on programming tasks to produce training data for LLMs (specifics under NDA)
- Work across Python, JavaScript, and Docker-based environments

DataMixMaster — Remote Jun 2022 – Oct 2024

Partner & Frontend Developer (Mar 2023 – Oct 2024) · *Frontend Developer, Part-Time* (Jun 2022 – Mar 2023)

- Developed client-facing interfaces for displaying and manipulating large datasets
- Maintained and extended the company's React site, writing unit tests and shipping through a CI/CD pipeline with automated testing
- Managed deployment of the site as a Docker container on Heroku
- Joined as a partner with part ownership of the company in 2023; met with clients on project requirements

Groenewold IT Solutions — Remote Apr 2023 – Aug 2023

Full-Stack Developer

- Built a medical record-keeping application for a client as the sole developer on the project
- Designed and implemented the backend and frontend from scratch using MySQL, Express, React, and Node.js
- Implemented user authentication and encryption of patient data

Projects

Dots and Circles — Manchu OCR | *Python, NumPy, Flask, Heroku* | Live · GitHub Jun 2026 – Present

- Built a transformer-based OCR model from scratch in NumPy with no autograd, hand-implementing backpropagation, multi-head attention, CTC loss, Adam, and dropout
- Generated synthetic training data by rendering dictionary entries in Manchu fonts, then added augmentation (paper texture, stroke variation, JPEG artifacts, noise) for real-world robustness
- Raised accuracy on a published dataset of scanned historical Manchu texts from 65.9% to 98.5% (characters) and 16.4% to 92.9% (whole words)
- Ran and documented 30+ training experiments comparing model depth, embedding size, output heads, optimizers, and learning rates; serves the model through a Flask API with a Next.js frontend

Raschka-LLM — GPT-2 Style Language Model | *Python, PyTorch* | GitHub Aug 2026

- Implemented a GPT-2 architecture from scratch in PyTorch, including tokenization, causal multi-head attention, layer normalization, and feed-forward blocks, following Sebastian Raschka's *Build a Large Language Model (From Scratch)*
- Pretrained the model; loaded OpenAI's 124M-parameter GPT-2 weights; fine-tuned for spam classification and question answering

Additional Experience

Deli Helper Clerk, PCC Community Markets — Seattle, WA Feb 2026 – Sep 2026

Barista, Blue Bottle Coffee — New York, NY Apr 2024 – Dec 2025

Education

Hunter College, City University of New York — New York, NY Aug 2018 – May 2022

B.A. in Computer Science and History, cum laude — Minors in Mathematics and German

Technical Skills

- **Languages:** Python, JavaScript, SQL
- **ML / AI:** PyTorch, NumPy, tiktoken, transformers, CTC, backpropagation, SGD/Adam, dropout, synthetic data augmentation, agentic coding (Claude Code)
- **Data & imaging:** Pillow, Matplotlib
- **Web & APIs:** REST APIs, Flask, React, Next.js, Node.js, Express, MongoDB, MySQL
- **Tools:** Git, Linux, Docker, Heroku, CI/CD, pytest, Jest
- **Spoken languages:** English (native), German (C1), Spanish (A2)