Lindsay Schwartz | Full Stack Software Engineer

LindsaySchwartz.com | lindsayreneeschwartz@gmail.com | LinkedIn | GitHub

Full Stack Software Engineer and Georgia Tech OMSCS student who builds tools to solve real frustrations. A background in design and nutrition counseling taught me to turn complex things into something people can actually use, and engineering let me build those things end to end. I'm drawn to how systems connect under the hood and to making them feel simple on the surface. That's backend logic and human-facing design in the same job, with applied machine learning increasingly part of how I work.

Technical Skills

Languages: Python, TypeScript, JavaScript, SQL, HTML, CSS/SCSS
Frameworks & Tools: React, Angular, FastAPI, Flask, Node.js, SQLAlchemy, REST APIs, Tailwind, microservices
ML & Data: PyTorch, ONNX Runtime, PostgreSQL, MySQL, MariaDB, Computer Vision, Redis
DevOps: Docker, Git/GitHub, Terraform, CI/CD (CircleCI, GitHub Actions), Linux

Professional Engineering Experience

Software Engineering Intern | *Rocket* | *Remote* May 2025 – April 2026

- Built and shipped full-stack features for an internal support application used by ∼50 support agents, working across an Angular/TypeScript frontend and backend API integrations as a full contributing engineer on a 7-person team. Earned 'Exceeded Expectations' on all three reviews, resulting in two extensions.
- Led development of an in-app tool for updating client information directly in the platform, and a credit-report viewing feature that integrated the backend to a new credit service via a Backend-for-Frontend (BFF) architecture, bringing data that previously lived in a separate platform into the agents' main workflow.
- Shipped a cross-tool data flow that let agents copy loan numbers to pre-populate the record-update tool automatically, eliminating repeated manual re-entry when switching platforms.
- Identified and built a feature to display and compare client debts across two internal systems after shadowing an agent and spotting the gap, plus GCID enhancements (hyperlinks, warning components) that let agents quickly debug data mismatches across systems.
- Drove quality-of-life work that improved reliability and scalability: an SCSS migration and design-system transition that unblocked an Angular upgrade, reusable components, a refactored feedback flow with Splunk monitoring, and bug fixes. Created UI mockups that shaped a new consolidated-data-hub feature, drawing on prior design experience.

Technical Projects

Forager | *Full Stack Ecological Intelligence App* | *GitHub Repo* | *View Forager Live* Feb 2026 – Present

- Built and deployed a full-stack app that identifies wild edible plants and fungi from a photo, streaming back species, safety, nutrition, and weather data. React 19/TypeScript (Zustand, Tailwind, shadcn/ui) frontend, FastAPI/async SQLAlchemy backend, PostgreSQL, deployed cost-efficiently on a single AWS EC2 instance via Terraform and Docker Compose.
- Trained an EfficientNet-B7 classifier to 95.7% accuracy across 101 plant/fungi species on ∼177K iNaturalist images, using a three-phase fine-tuning pipeline (head warm-up, full fine-tune, SWA refinement) and a six-technique regularization stack; scaled from an initial B3 model (70.9%) when analysis showed the larger input was needed to separate look-alikes.
- Exported a dual-output ONNX model returning logits and feature maps in one forward pass, so the backend computes CAM explainability heatmaps in pure NumPy with no PyTorch in production; runs inference on CPU (no GPU instance required) and is covered by an automated ONNX transform-regression test.
- Built a progressive Server-Sent Events pipeline as a single async generator, streaming each stage to the client as it completes and persisting to PostgreSQL incrementally, so a downstream failure (e.g. weather API) never loses earlier results.
- Designed a deterministic safety layer that pulls verdicts from a curated, citation-backed knowledge base instead of an LLM and defaults to caution on low confidence or missing data, so a "safe" verdict can never be returned without backing data. Backed by integration tests (real Postgres) and GitHub Actions CI.

Citizen Science App for Kids | *OSU Capstone – Sole Backend Engineer* | *GitHub Repo* 2024

- Sole backend engineer on a 4-person team building a citizen science platform for logging wildlife and plant observations. Architected and deployed a Flask REST API with JWT authentication, role-based access control, session management, and input validation serving both a mobile field app and an admin web dashboard.
- Designed the full relational database schema in MySQL, built interactive data visualizations (Chart.js) for the admin dashboard, authored API documentation, and wrote a full unit test suite (Pytest); deployed on Railway.

Education

Master of Science in Computer Science | *Georgia Institute of Technology* | Jan 2025 – Present
Bachelor of Science in Computer Science | *Oregon State University* | Dec 2024
Bachelor of Fine Arts in Graphic Communications | *College for Creative Studies*

Prior Professional Experience

Integrative Nutrition Counselor | *Circle of Life Nutrition – Personal Practice* 2017 – 2021
Founded and operated a private practice, owning the full lifecycle from client acquisition to service delivery. Translated complex evidence-based data into clear, actionable plans for diverse audiences. Frustration with available client-facing tools sparked the pivot into software engineering.

Graphic Designer & Art Director | *Freelance / Contract* 2009 – 2019
Coded HTML/CSS email campaigns and contributed concepting and graphic design for a website redesign, for clients including Quicken Loans (now Rocket), Fathead, and Renaissance Media, partnering with marketing and product teams to analyze engagement and optimize user-facing content.