

Lawson Nerenberg

Machine Learning & Full Stack
Software Engineer

Summary

Full-stack ML engineer with 3 years scaling LLM-driven pipelines

Adept at fine-tuning, eval, perf monitoring, and x-team collab

Now seeking roles where I can fortify and expand production AI systems.

Contact

✉ lnerenbergdev@gmail.com
📍 Denver, CO
🌐 [LinkedIn](#)
🐙 [GitHub](#)

Skills & Expertise

Core

- LLMs (instruction tuning, evaluation and perf monitoring),
- Full-Stack (TypeScript, React, Python),
- Data Engineering (BigQuery, SQL)
- ML Ops

Advanced

- Infrastructure (Baseten, Kubernetes, GCP, Terraform, Azure)
- Human-in-the-loop tooling
- RAG and Multi Agent Orchestration
- Event-driven Architecture

Familiar

- C++
- Integrated Circuit Design
- CAD (SolidWorks)

Education

CU Boulder (2016-2022)
Mechanical Engineering

Front Range CC (2016-2018)
Cybersecurity

Professional Experience

Full-Stack & ML Engineer at PicnicHealth

📅 March 2022—March 2025

Worked across 3 teams while scaling up medical-record data abstraction pipeline

- Published AI paper on using LLM for medical research purposes (“A Large Language Model for Interpreting Longitudinal Medical Records”)
- Cut dataset generation time 50% by optimizing rendering and export pipelines
- Built patient-facing web app to review structured records achieving 79 NPS
- Developed real-time systems for Health Information Exchange (HIE) integration
- Shipped human in the loop tooling and systems
- On-call supporting micro-service infra with 99.999% up-time goal

Full-Stack Software Engineer at OneShop

📅 Jan. 2022—Feb. 2022

Short term fire-fighter for an e-commerce automation tooling startup.

- Delivered E2E image background removal feature for listing photos
- Maintained React Native app relied upon by professional sellers

AI Researcher at Matter Assembly Lab (cu)

📅 May 2021—March 2022

Pioneered LLM-driven workflows for generative mechanical design.

- Led project for generating CAD models from nat-lang specs
- Built E2E fine-tuning pipeline; Data labeling and synthesis, multi-modal eval
- OpenAI API early adopter

Undergrad Researcher at Colorado Space Grant

📅 May 2020—March 2022

Swiss-army engineer: software, firmware, CAD, IC design, RF, mechatronics

- Great Lunar Expedition for Everyone: Pre-flight phase
 - >\$500K NASA Funding
 - Prototyped distributed sensing platform for lunar surface (LunaSats)
 - Founded and led 2 teams Software and Systems teams
 - Presented kits and edu module to teams from 50 universities at workshop
- Rescued Rocksat payload weeks before Launch

Intern at NASA Langley Research Center

📅 Summers of 2015, 2018, 2019

3x summer intern; Structural Mech and Concepts + Vehicle Analysis Branches

- Applied AI to engineer next-gen of thermal-protection
- Translated fortran to matlab, ran tests with labview, trained tensorflow models
- Hands-on R&D backing emergency fire-shelter proposal for U.S Forest Service