

JACK “SIGGY” SIGLER

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EDUCATION

Colorado School of Mines

B.S. Computer Science (2022–2025) — M.S. Computer Science (2025–Present)

August 2022 – May 2026

Golden, CO

B.S. GPA: 3.94 — M.S. GPA: 4.00

EXPERIENCE

Small Neurons AI Research Group

Graduate Researcher | Python • PyTorch • PEFT

August 2025 – May 2026

Golden, Colorado

- Built and delivered a full LLM systems pipeline to evaluate AI Personalization using data from prediction market.
- Engineered distributed GPU LoRA fine-tuning with continuous model merging using GCP + A100 nodes
- Created an agent harness from scratch with tool calls, memory storage and retrieval, and long term memory compaction.

Athena IQ

Full Stack Developer | JS • Python • HTML • CSS • Postgres

August 2025 – April 2026

Golden, Colorado

- Solo engineer on 4-person team building automotive service management platform using React, Node, Auth0, and FastAPI.
- Helping to build and scale a system now serving 50+ Midas and Big-O Car Shops in production.
- Rebuilt the backend to support multi-tenant architecture, integrated Auth0 authentication, and implemented RBAC.

Salesforce

Software Engineering Intern | Typescript • Python • Jenkins CI/CD

May 2025 – August 2025

San Francisco, California

- Led and implemented the entire SDLC of an AI-powered support bot from concept to production, achieving full ownership
- In first month of production, the bot automated 175+ help tickets, saving staff 7 hours monthly
- Developed dynamic dashboards using Superset + PostgreSQL to identify regression patterns; delivered directly to customers

PeCS Research Group

Undergraduate Research Assistant | C++ • Python • Linux • Bash

August 2024 – July 2025

Golden, Colorado

- Co-authored a research paper on autonomous drone path planning; published in ACM J. on Autonomous Transportation Systems
- Led development of obstacle avoidance in the main path planning algorithm using Gurobi's Optimizer and OMPL's RRT*
- Developed a script enabling Raspberry Pis to operate as ad-hoc networks; Resulting experiments featured in published research.

CACI International

Software Engineering Intern | Python • Linux • Bash • Wireshark

May 2024 – August 2024

Westminster, Colorado

- Contributed as part of the RF team on a government contract, evaluating 10+ millimeter-wave devices across 802.11ad and NR2
- Created a scripted field test for 60GHz WiFi devices, and used Linux networking tools with embedded technologies.
- Performed in-person cellular surveying with an open-source signal collection tool (SCAT), Wireshark, and Minicom.

Datava

Software Engineering Intern | PHP • JS • HTML • CSS

January 2024 – May 2024

Golden, Colorado

- Worked with the Datava software team to develop HTTP and WebSocket protocols for the existing codebase.
- Used the Workerman PHP framework for the backend of the project and used JavaScript for the front end.

SELECTED PROJECTS

Tomo Living

Semester Class Project | Python • Typescript • Docker

October 2025 - November 2025

- Used Vibe Coding tools and spec driven development to engineer, deploy, and host a dockerized multi user roommate web app
- Designed an internal shared-calendar system from scratch, including custom Duckling-backed natural-language event parsing and tokenized iCalendar feeds that sync house schedules across modern calendar clients

Options Researcher

Consulting Project | Python • HTML • Github Actions

July 2025

- Delivered a fully containerized, options research tool for a non-technical audience using Schwab and Yahoo Finance APIs.
- Analyzed options data for ~ 7000 stocks daily, generating fully automated emailed reports for my stakeholder.

Odyssey Test Platform Code Generator

Lunar Outpost | Python

May 2024 – August 2024

- Developed a rover messaging schema code generator, translating YAML message headers to C/C++ code.
- Built project documentation, UML diagrams, and system architecture. Led team sprint planning and developed the testing suite

SnowDays

Social Media Startup | JS • HTML • CSS

January 2024 – May 2024

- With a team of 3, built a social media platform for college students interested in winter sports using React, Expo, and Firebase.
- Utilized user engagements campaigns to grow the platform to over 50 users and 100 posts in the first month of launch.

HONORS & AWARDS

Dean's List — Academic honor roll for students who complete a semester with over a 3.5 GPA

2022, 2023, 2024

FSL Outstanding Scholar — Voted by the Fraternity and Sorority Life community for academic excellence

2023, 2024

MURF Recipient — Applied for and received a competitive grant to fund undergraduate research at Mines

2024

Infinity C-MAPP Scholar — Selected as a C-MAPP scholar as a way to engage with CS@Mines' Industrial Partnerships

2024