

Nathan Panzer

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Adaptable full-stack software engineer with 2+ years experience and M.S. Computer Science. Positive team player passionately building high-quality apps like AI platforms and data processing microservices.

Experience

Outside Analytics + SMX

Broomfield, CO

Technologies: Python, Typescript, Flask, React, Docker, Protobuf, HTML, CSS.

2 yrs. 2 mo.

Associate Software Engineer

June 2025 – July 2026

- Rebuilt LLM-powered AI document retrieval/analysis platform with user-managed document collections, creating more tailored and accurate LLM responses. Implemented front-end features in React (Typescript, Next.js) leveraging Python (FastAPI) and SQL back-end.
- Optimized modular front-end React (Typescript) app, fine-tuning component styling and layouts for responsive design and integrating with the wider application's ecosystem.
- Prepared client-facing analysis in written document and slide deck forms on investigation testing and benchmarking industry-leading open-source AI platforms for airgapped deployment.

Software Engineering Intern

June 2024 – May 2025

- Designed and implemented back-end simulation software to produce synthetic infrared tracking data, integrating with a wider sensor visualization platform, enabling better feature development, automated functional testing, and highly realistic product demos.
- Built simulation app in Python (Flask) with automated unit testing, and containerized via Docker.

ICR, Inc.

Aurora, CO

Technologies: Java, Typescript, Spring, Angular, Docker, Protobuf, gRPC, MongoDB.

4 mo.

Full-Stack Software Development Intern

May 2023 – Aug 2023

- Developed data processing microservices framework for distributed processing of radio signals. Built Angular (Typescript) front-end and Java Spring back-end deployed in Docker containers.
- Architected automatic load balancing and runtime scaling of microservices, providing a >300% increase in data processing speed with the ability for 'unlimited' bandwidth scaling.

Skills

Languages:	Python, Typescript, Java, SQL, Javascript, C++, C, Bash.
Technologies:	Docker, Git, Linux, AI-assisted developer environments (Cursor, Windsurf), React, Angular, Java Spring, PostgreSQL, MongoDB.
Concepts:	DevOps, Automated testing, CI/CD pipelines, Microservice architecture, Agile, Scrum.

Education

Colorado School of Mines

Golden, CO

Master of Science, Computer Science. GPA 3.71, with studies in Data Systems and Cybersecurity.

May 2025

Bachelor of Science, Computer Science. GPA 3.99, Dean's List, *summa cum laude*.

May 2024

Awards

Eagle Scout

Scouting America

Achieved the highest rank in Scouting through a track record of effective leadership, collaborative planning, and community service. Led team of 30 youth and adults to plan and execute a community service project to build an accessible hiking trail at a National Wildlife Refuge.

Sept 2021