

Paul Lintzen

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EDUCATION

Colorado School of Mines, Golden CO

May 2027

Master of Science Non-Thesis in Data Science

GPA: —

- On track to complete both B.S. and M.S. in four years through intensive coursework and proactive planning
- Admitted to M.S. program; beginning graduate coursework this semester

Colorado School of Mines, Golden CO

Aug 2026

Bachelor of Science in Computer Science with a Data Science Focus

GPA: 4.0

- Tau Beta Pi Engineering Honor Society member
- 4-year President's Scholarship; Dean's List all semesters (2023–Present)

SKILLS

Technologies: Git/GitHub, Pandas, APIs, CLIs (Windows CMD, Linux Bash), VSCode, RStudio, Excel, Windows OS, UML modeling, Agile Methodology, SolidWorks (CSWA certified), Word, PowerPoint, Adobe Illustrator

Languages: C++, C, Java, Python, SQL, R, RISC-V Assembly, LaTeX, OCaml and Bash

Communication: Technical writing, public speaking; multilingual – English/German/basic Spanish

Professional: Detail-oriented, analytical, strong leadership and arbitration skills, first aid/CPR/AED certified, collaborative, self-motivated, adaptable

PROJECTS

AI Food Classifier & Calorie Predictor, Colorado School of Mines

Oct - Dec 2025

- Trained a CNN in TensorFlow on a 101k-image, 101-class food dataset, achieving 59% validation accuracy, and integrated nutrition APIs to estimate calorie information per class.
- Built Flask web app enabling real-time image upload, classification, calorie estimates, and confidence scores.

Linux Server Administration & Home Lab Infrastructure, Personal

Jan 2026 - Present

- Deployed Raspberry Pi and Linux servers for Pi-hole network-wide ad blocking, DHCP management, and multiplayer game hosting, including firewall, port forwarding, and dynamic DNS configuration.
- Self-hosted WireGuard VPN with SSH key authentication for encrypted remote access and DNS filtering, enabling secure connectivity and ad blocking while traveling.

Pac-Man AI: Probabilistic Reasoning, Colorado School of Mines

Apr 2025

- Implemented probabilistic inference and Bayesian network algorithms in a Pac-Man AI project to model and predict ghost positions under uncertainty.
- Created belief updates, temporal prediction, and action-selection logic to enable Pacman to dynamically plan optimal moves based on predicted ghost locations.

AlgoBowl Competition: Heuristic Algorithm, Colorado School of Mines

Oct 2024

- Developed a heuristic algorithm to solve an NP-hard problem, participating in a weeklong competition focused on designing innovative and efficient solutions.
- Our three-person team won 1st place in section A.

WORK EXPERIENCE

Teacher's Assistant - CSCI406 Algorithms

Jan 2026 - Present

Colorado School of Mines

Golden, Colorado

- Assist with assignment creation, grading, and student support on class projects and coursework.

IMCS/Rec Supervisor

Mar 2024 - Present

Colorado School of Mines

Golden, Colorado

- Supervise intramural/club sports operations; oversee and organize facility activities during open hours.

ACTIVITIES AND INTERESTS

Technical: PC building, Linux server administration, basic networking, data analysis, and software development

Outdoors: Snowboarding, hiking, mountain biking, running, traveling, and camping