

Paul Lintzen

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EDUCATION

Colorado School of Mines, Golden CO Master of Science Non-Thesis in Data Science	May 2027 GPA: —
Colorado School of Mines, Golden CO Bachelor of Science in Computer Science with a Data Science Focus	Aug 2026 GPA: 4.0

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 for CSCI406: Algorithms Colorado School of Mines	Jan 2026 - Present Golden, Colorado
● Assist with assignment creation, grading, and student support on class projects and coursework.	
IMCS/Rec Supervisor Colorado School of Mines	Mar 2024 - Present 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