

# Paul Lintzen

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## EDUCATION

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

<b>AI Food Classifier &amp; Calorie Predictor</b> , Colorado School of Mines	<b>Oct - Dec 2025</b>
● 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.	
<b>Linux Server Administration &amp; Home Lab Infrastructure</b> , Personal	<b>Jan 2026 - Present</b>
● 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.	
<b>Pac-Man AI: Probabilistic Reasoning</b> , Colorado School of Mines	<b>Apr 2025</b>
● 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.	
<b>AlgoBowl Competition: Heuristic Algorithm</b> , Colorado School of Mines	<b>Oct 2024</b>
● 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

<b>Teacher's Assistant - CSCI406 Algorithms</b> Colorado School of Mines	<b>Jan 2026 - Present</b> Golden, Colorado
● Assist with assignment creation, grading, and student support on class projects and coursework.	
<b>IMCS/Rec Supervisor</b> Colorado School of Mines	<b>Mar 2024 - Present</b> 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