

# Paul Lintzen

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## EDUCATION

|   |                             |
|---|-----------------------------|
| <b>Colorado School of Mines, Golden CO</b><br>Master of Science Non-Thesis in Data Science                      | <b>May 2027</b><br>GPA: —   |
| <b>Colorado School of Mines, Golden CO</b><br>Bachelor of Science in Computer Science with a Data Science Focus | <b>Aug 2026</b><br>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 for CSCI406: Algorithms</b><br>Colorado School of Mines                             | <b>Jan 2026 - Present</b><br>Golden, Colorado |
| ● Assist with assignment creation, grading, and student support on class projects and coursework.          |   |
| <b>IMCS/Rec Supervisor</b><br>Colorado School of Mines   | <b>Mar 2024 - Present</b><br>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