Talon Finehout

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EDUCATION

Western Colorado University | Gunnison, CO   Expected May 2026

B.S. Computer Science, Focus: Machine Learning, Minor: Art | **GPA:** 3.61/4.0

Relevant Coursework: Data Structures, Algorithms, Machine Learning, Computer Vision, Internet of Things, Operating Systems/Architecture, Software Engineering, Database Management, Mobile Development

Awards & Honors: Dean's List (Fall 2022, Spring 2023, Spring 2024, Fall 2025)

WORK EXPERIENCE

Western Colorado University | Gunnison, CO   August 2025 - Present

Data & Research Analyst Career Ambassador

- Supporting Career Services operations (i.e., reviewing resumes and cover letters) and student engagement.
- Managing First Destination Survey data collection, increasing survey response rate to over 60%
- Managing data collection, reporting, and analysis.

Western Colorado University | Gunnison, CO   February 2024 - Present

EPIC Mentor

- Serving as a proactive leader and role model for mentees.
- Mentoring first-year and transfer students to support academic success.
- Track outreach and engagement data to improve student onboarding and support.
- Collaborate with faculty to enhance student support programs.

TECHNICAL PROJECTS

Rampage Clinometer | Internet of Things Project   Fall 2025

- Developed Arduino-based sensor system measuring pitch, yaw, and object distance.
- Built a Python GUI receiving wireless sensor data from a radio controlled by C++ software.
- Implemented real-time visualization of motion and distance metrics to enhance vehicle dynamics.

Predictive Ski Lift Wait Time | Computer Vision Project   Spring 2025

- Designed a computer vision system to estimate ski lift queue length and predict wait times.
- Trained and evaluated ML models using TensorFlow and YOLO for object detection of people in a region of interest.
- Processed and analyzed image data using Pandas and OpenCV to improve the confidence level to 60%.

CRUD Web Application | WebDev Project   Spring 2025

- Built full-stack CRUD web applications supporting data creation, editing, and deletion.
- Integrated SQL Lite databases for persistent storage and retrieval.
- Implemented backend logic and frontend interfaces using JavaScript and Python frameworks.

SKILLS & CERTIFICATIONS

Programming Languages: Python, R, SQL, JavaScript, C, C++, Java, PHP

Frameworks & Tools: TensorFlow, OpenCV, Git, Linux, Virtual Environments, OOP

Machine Learning: Neural Networks, Computer Vision, NLP, Model Training & Evaluation

Web Development: HTML, CSS, JavaScript, SQL Databases, REST APIs, Flask

Certifications:

Western Colorado University: Full Stack Developer Certificate, Software Engineering Certificate