

# Eamon Howell

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## Education

Colorado School of Mines, Golden CO

August 2021 - December 2024

**Bachelor of Science Computer Science**, Focus in Data Science

GPA: 3.54

Honors: Thorson First-Year Experience (intersection of science, technology, and society), Dean's List, Honor Roll

## Skills

- Python, SQL, R, C/C++, LaTeX, Linux, Java, RISC-V, JavaScript, OCaml, HTML, CSS, Go, Ajax, Leaflet
- Adobe Illustrator, Adobe Photoshop, Microsoft Word, Excel, MATLAB, Jupyter Notebooks, Git
- Technical Writing, Agile Software Development, OOP, TDD, Independent Research, Teamwork, Scheduling
- MIG Welding, Metal Working

## Computer and Data Science Experience

### Elmagin Capital LLC, West Chester, PA

Project Independent Contractor

January 2025 - Present

- Developing a webpage to view multiple energy markets profit and loss data geographically.
- Using HTML, JavaScript, and Leaflet to design the webpage to display the energy nodes and their data.
- Using Python Pandas to analyze and format the data on the nodes into something usable for the webpage.

### Walker Water LLC, Cedaredge, CO

May 2024 - June 2024

Field Session Experience (Team-based project internship through Colorado School of Mines)

- Used Python and C++ to develop a water simulator using satellite data to predict snowmelt for more accurate water management.
- Created documentation for newly developed and legacy code, for future project work.
- Integrated legacy and new code into a cohesive product to meet the client's expectations of an accurate water simulator.

### Colorado School of Mines, Golden CO

Database Management Project

August 2023 - December 2023

- Contributed to a team building a PostgreSQL database to store and access data to learn from it.
- Managed cleaning the dataset and making the SQL schema to store the data.
- Aided others in making queries to analyze the data.

Introduction to Data Science Project

August 2023 - December 2023

- Analyzed school funding to determine its relationship with student GPA and success rates.
- Used an SVR model in a Python Jupyter Notebook to predict student GPA based on funding spent per student.

### Colorado School of Mines, Golden CO

Computer Science Teaching Assistant

August 2022 - May 2023, August 2023 - December 2024

- Aided 70 students per class in coding problems related to programs and Python syntax to complete assignments.
- Provided explanations on Python concepts and coding practices for better understanding.
- Handled grading for approximately 40 specific students' work from written assignments to project code.

## Additional Work Experience

### Leonardo's Basement, Minneapolis MN

Summer Day Camp Assistant

June 2022 - August 2022, June 2023 - August 2023

- Instructed children ages six through 13 on safe use of power tools and building equipment.
- Guided young individuals on safe construction techniques in wood, metal, and assorted building materials.
- Taught MIG welding and metal working skills to young adults ages 14 through 18.