

Samuel Hagen

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Education

University of Colorado, Boulder

May 2026

Bachelors of Arts; Major in Computer Science, Minor in Data Science

GPA: 3.98/4.0

Projects

Portfolio Website

2024

- Developed a personal portfolio website showcasing technical skills and projects, featuring a professional, minimal design and a user-friendly interface.

• Nextjs, React, Typescript, Tailwind, Figma

Object Oriented Escape Room Simulation

2023

- Developed an object-oriented escape room simulation in Java, implementing game mechanics, utilizing principles such as inheritance, polymorphism, and encapsulation to create an interactive and scalable simulation.

• Java

Data Science Practice

2023

- Created a Google Colab notebook for practicing data science skills, covering data preprocessing, visualization, and machine learning using Python libraries like Pandas, Scikit-learn, and Matplotlib.

• Python

Experience

Teaching Assistant Programming with C, UCCS

Sep 2024 – Dec 2024

- Assist in grading and providing detailed feedback on student assignments and projects in C programming, ensuring understanding of core concepts and improvement in coding skills.

• Class: UCCS CS 2060

Research – Viceroy Fellow, UCCS

May 2024 – Dec 2024

- Researching MITRE Caldera and other cybersecurity software to create metrics to evaluate future red team emulation softwares

- Developed and implemented machine learning models on Arduino embedded systems to simulate infrastructure and perform real-time threat detection, optimizing model performance for constrained hardware environments

Admissions Assistant, University of Colorado Colorado Springs

Aug 2023 – Sep 2024

- Processed and entered student transcripts using Salesforce and other business software, demonstrating strong technical communication skills. Accelerated peak application processing time, reducing backlog by three weeks and improving overall efficiency.

Certifications

Google Data Analytics Professional

2024

• SQL, Tableau, R, Data Visualization, Data Cleaning

Machine Learning A-Z

In Progress

• Pandas, NumPy, Matplotlib, Regression, Clustering, Classification, NLP, Deep Learning

Skills

Languages: Java, C/C++ , Python, JavaScript, Shell Scripting, R

Software: AWS, Docker, React, Tailwind, Git, GitHub, Google Cloud Platform, Tableau

Methodologies: Agile, Scrum, Version Control, UI/UX Life-cycle