

# Cole Garvey

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## EDUCATION

### University of Colorado, Boulder

B.A., Computer Science; Minor, Data Science

GPA: 3.35

Relevant Coursework: Cybersecurity; Computer Security; Information Visualization; Artificial Intelligence; Machine Learning

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## WORK EXPERIENCE

### Information Technology Intern

Jun 2025 – Aug 2025

Equitable

New York City, NY/Remote

- Aided in creation of **Gen-AI software security review agent** for security review automation, **saving** upwards of **5-figures** annually.
- Collaborated with Cyber teams: SOC Analysts, Incident Response, Threat Intelligence, and Vulnerability Management.
- Experienced daily operations and use-cases of **SIEM** and **SOAR** tools for threat assessment and response.

### Sales Associate

Mar 2021 – Jan 2025

Walkers Wine & Spirits

Lambertville, NJ

- Operated as a cashier, handled inventory restock, managed online orders and delivery accounting.
  - Provided customer support via phone and in-person, improving the customer experience.
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## PROJECTS

### AI Network Intrusion Detection System

Dec 2025

- Designed and implemented a **machine learning data pipeline** for **network intrusion detection**, extracting features from **PCAP files** for **cybersecurity analysis**.
- Built a traffic analysis model to detect **malicious network behavior**, including **port scanning**, and automatically flag suspicious **IP addresses** for investigation.

### AI/Machine Learning

- Applied **backpropagation** techniques to exploit weaknesses in an **image-based authentication system**, demonstrating **adversarial machine learning** concepts.
- Built and evaluated **regression and classification models** using scikit-learn, applying proper feature selection, validation, and performance metrics **to support data-driven predictions**.

### Data Visualization

- Created **interactive data visualizations** using **Python** and **Vega-Altair** to improve data interpretability and user engagement.
  - Analyzed **2024 NFL season data** using **statistical analysis** and visualization to explore relationships between **team payrolls**, **player performance**, and competitive outcomes.
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## ADDITIONAL

**Technical Skills:** PowerBI, Tableau, Git-GitHub, AWS, Python, JavaScript, SQL

**Volunteer:** Habitat for Humanity - Disaster and Humanitarian Relief