

Caleb Woldemedhine

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EDUCATION

University of Denver

B.S. in Computer Science (AI & ML Concentration)

Minor: Mathematics and Statistics

GPA: 3.67

Relevant Coursework: Data Structures & Algorithms I & II, Database Management, Object-Oriented Software Development, Systems I & II, Topics in Artificial Intelligence (LLM's), Discrete Structures, Linear Algebra, Foundations of Machine Learning

Denver, CO

Sept 2023 - Jun 2027

EXPERIENCE

Frederick S. Pardee Institute for International Futures

Denver, CO

Data Technician

Sept 2025 - Present

- Built and organized a database of international student statistics, cleaning and preprocessing data to support institutional research and reporting.

Tempus Automation

Highlands Ranch, CO

Software Engineering Intern

Jun 2025 - Aug 2025

- Developed and trained a C# based AI model for automated deck design using computer vision inputs and a custom dataset of materials, dimensions, and pricing rules.
- Designed and implemented a relational SQL database to manage material inventory, cost estimation logic, and model training data.
- Integrated the AI model and database into an existing web platform, enabling real-time design generation and dynamic pricing based on user inputs.

Denver Center of African Art

Denver, CO

Web Developer

Jun 2024 - Sept 2024

- Built a fully responsive website using HTML, CSS, and JavaScript, creating organized page layouts, mobile-friendly navigation, and accessible content for all users.
- Integrated Stripe's secure payment system into the website to process and track online donations, including setting up payment forms, transaction receipts, and donor records.

Michael Auto Sales

Denver, CO

IT & Data Assistant

Sept 2022 - Jan 2024

- Reviewed and organized monthly profit and expense reports using Excel and Python to track business performance and identify trends that supported financial planning.
- Maintained and updated the company's inventory system in DealerCloud by adding new vehicles, adjusting pricing, and cleaning data using SQL to ensure accurate records.

PROJECTS

Stock Prediction and Analysis Tool

- Developed a Streamlit app combining Prophet, Random Forest, and scikit-learn models with TextBlob sentiment analysis and pandas indicators for financial market forecasting.

DuDraw AI Coder

- Built an AI tool that turns user prompts into interactive games, drawings, and visualizations using DuDraw and large language models.

NYC COVID-19 Spread Simulation

- Created an interactive COVID-19 spread simulation with adjustable controls such as lockdowns, patient zero, speed and real-time epidemic curve visualization.

TECHNICAL SKILLS

Languages & Frameworks: HTML, CSS, JavaScript, React, TypeScript, Next.js, Python, Java, C, C++, C#, R, Shell, Perl

Libraries & Technologies: PyTorch, TensorFlow, Keras, Scikit-learn, OpenAI API, Prophet, Pandas, Plotly, Matplotlib, NumPy, Excel, Tableau, MySQL, NoSql, REST APIs, AWS

LEADERSHIP

National Society Of Black Engineers

Denver, CO

President

Jun 2025 - Present

- Raised \$30,000 to send 30 students to the NSBE National Convention and organized a hiring fair with multiple recruiting companies.
- Structured and managed event operations including venue coordination, employer outreach, registration systems, travel logistics, and team workflows to ensure seamless execution.