

# Caleb Woldemedhine

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## EDUCATION

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### University of Denver

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

Minor: Mathematics and Statistics

GPA: 3.61

Denver, CO

Sept 2023 - Jun 2027

**Relevant Coursework:** Data Structures & Algorithms I & II, Object-Oriented Software Development, Systems I & II, Database Organization & Management, Topics in Artificial Intelligence (Machine Learning & LLMs), Applied Math for Data Science and AI, Machine Learning for IoT and Embedded Devices, Linear Algebra, Discrete Structures, Introduction to Probability

## EXPERIENCE

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### Frederick S. Pardee Institute for International Futures

Denver, CO

#### Data Technician

Sept 2025 - Present

- Clean and preprocess international education datasets using Python and pandas to standardize country-year coverage and run quality checks so tables are ready for updates.
- Wrote a Python import script that converts cleaned Excel files into structured inserts and loads them into a SQL database, automating formatting and data-loading workflows.
- Verified imported data against the Data Dictionary to ensure alignment with variable definitions and accurate integration before delivery to the website and internal databases.

### 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 with clean page layouts, mobile-friendly navigation, and accessible content.
- Integrated Stripe to process and track online donations, 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 trends for financial planning, while maintaining accurate DealerCloud inventory records by updating vehicle listings, pricing, and cleaning data with SQL.

## PROJECTS

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### Stock Prediction and Analysis Tool

- Built a stock analysis and forecasting website with a Python backend and JavaScript frontend that gives users an interactive dashboard with price forecasts, sentiment insights, trading signals, and model accuracy results powered by machine learning.

### DuDraw AI Coder

- Built a full-stack AI website where users enter a prompt and a large language model generates DuDraw code that turns their ideas into interactive drawings and simple games.

### 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

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

**Libraries & Technologies:** PyTorch, TensorFlow, Keras, Scikit-learn, Prophet, Pandas, Plotly, NumPy, Excel, Tableau, REST APIs, AWS, ML.NET, Docker, Git, Linux

## LEADERSHIP

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### National Society Of Black Engineers

Denver, CO

#### President

Jun 2025 - Present

- Raised \$40,000 to send 30 students to the NSBE National Convention and organized a multi-company hiring fair, leading employer outreach, sponsorships, and event operations to expand student career opportunities.