Caleb Woldemedhine

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EDUCATION

University of Denver　Denver, CO
B.S. in Computer Science (AI & ML Concentration)　Sept 2023 - Jun 2027
Minor: Mathematics and Statistics
GPA: 3.61
Relevant Coursework: Data Structures & Algorithms I & II, Database Management, Object-Oriented Software Development, Systems I & ll, Topics in Artificial Intelligence (LLM's), Discrete Structures, Linear Algebra, Foundations of Machine Learning

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.