

## Dagem Tadesse

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### Education

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#### University of Denver, Ritchie School of Engineering and Computer Science

Denver, CO

*Bachelor of Science in Computer Science*

*Expected Graduation: June 2027*

- Minors: Mathematics and Business Information and Analytics
- Relevant Courses: Data Structures & Algorithms I and II, Object Oriented Software Development (Java), Calculus 1, Calculus 11, Intro to Programming 1 (Python), Discrete Structures

### Skills

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**Technical Skills:** Python, Java, C++, JavaScript, HTML, CSS, Data Visualization (Matplotlib), Pandas, Linux, GitHub, Microsoft Office Suite (Excel, Word, PowerPoint), Google Suite

**Other Skills:** Problem Solving, Analytical thinking, Self-driven, Organizational leadership, Communication.

Language: Beginner Amharic

### Projects

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#### *UPC Bar Code Scan*

- Designed and implemented a Java program to decode UPC-A barcodes from image files, using pixel color analysis and pattern matching for error detection and correction.
- Developed an image-processing solution to extract and verify 12-digit numeric codes, including checksum validation for accuracy assurance.
- Optimized the decoding algorithm to improve processing speed and accuracy, enabling efficient barcode recognition across various image resolutions and lighting conditions.

#### *Personal Finance Tracker*

- Designed and implemented a **Personal Finance Tracker** using Python and Streamlit, enabling users to manage expenses, calculate totals, and track recurring payments efficiently.
- Developed features like dynamic expense addition, payment reminders, and period-based expense summaries to enhance financial planning.

### Professional Experience

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#### Undergraduate Research Assistant

University of Denver

- Designed and implemented data-driven models to evaluate the impact of diversity initiatives in computing, providing actionable insights for program development and policy recommendations.
- Contributed to peer-reviewed publications, research papers, and technical reports by synthesizing findings into compelling data-driven narratives, enhancing the understanding of research outcomes.
- Developed data visualizations and interactive dashboards using Python and visualization libraries using Matplotlib to effectively communicate research insights to diverse stakeholders.

#### Amazon, Fulfillment Center

Denver, CO

*Warehouse Associate*

*April 2023 – Present*

- Picked, packed, labeled, and prepared merchandise for shipment, ensuring timely and accurate delivery to customers.
- Managed material handling, including loading, unloading, and transportation to production and storage areas.
- Led a team of 5 associates to optimize workflow efficiency, reducing order processing time by 20% and increasing accuracy by 15% through improved coordination and task delegation.

### Leadership and Community Involvement

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#### African Students United

Denver, CO

*September- 2023-Present*

*Coordinator*

- Contributed creative ideas and collaborated with teams to successfully plan and coordinate events for African Students United, enhancing event engagement and participation.
- Developed engaging PowerPoint presentations, tracked event data using Excel, and managed social media platforms, leading to increased event visibility and improved data-driven decision-making.
- Leveraged data analysis to identify trends in event participation, using insights to optimize future events.

