

Dagem Tadesse

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Education

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 I, Calculus II, Intro to Programming I (Python)

Skills

Technical Skills: Python, Java, C++, Linux, GitHub, Microsoft Office Suite (Excel, Word, PowerPoint), Google Suite, Eclipse, VSCO, Software

Other Skills: Problem Solving, Analytical thinking, Self-driven, Organizational leadership, Communication. Language: Beginner Amharic

Projects

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.

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

Undergraduate Research Assistant

University of Denver

- Analyzed large datasets using Python and statistical methods, identifying trends that informed strategies to broaden diversity in computing.
- Contributed to peer-reviewed publications, research papers, and technical reports by synthesizing findings into compelling data-driven narratives, enhancing the understanding of research outcomes.

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.

Leadership and Community Involvement

African Students United

Denver, CO

Coordinator

September- 2023-Present

- 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.