

Eldad Workeneh Tolla

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EDUCATION

Randolph College

Cumulative GPA: 4.0

Bachelor of Liberal Arts and Sciences, Double Major: Computer Science and Mathematics

Minor: Data Science and Engineering

Classification: Sophomore

Scholarships: Wildcat Merit Scholarship

Summary

Dedicated Computer Science and Mathematics student with a strong academic record and hands-on experience in tutoring, technical support, and leadership. Passionate about machine learning and AI, with a proven ability to develop and execute projects, enhance learning environments, and engage in community outreach. Seeking opportunities to leverage my skills and knowledge in a challenging and dynamic setting.

EMPLOYMENT

Mathematics and Economics Tutor, Randolph College

2023 - Present

- Tutor students in economics, calculus, and computer programming (including algorithms), ensuring they understand complex concepts.
- Help students improve academic performance by offering tailored support in mathematical theory and coding practices.

Library Assistant, Lipscomb Library, Randolph College

2023 - Present

- Assist library patrons with locating resources, managing circulation, and supporting academic research.
- Contribute to organizing and maintaining library collections and resources.

IT Help Desk, Randolph College

2023 - Present

- Provide technical support to students, staff, and faculty, resolving hardware and software issues across campus.
- Assist with troubleshooting and maintaining school technology systems.

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Presidential Ambassador

Randolph College

2024 - Present

- Represent the college at official events, assisting with admissions, alumni relations, and community outreach efforts.

- **Provide campus tours, engage with prospective students, and promote the college's values and programs to diverse audiences.**

Science Festival (SciFest) Intern, Randolph College

2023 - Present

- Assisted with various aspects of the Science Festival, including organizing and supporting the LEGO competition.
- Participated in science outreach to diverse age groups, planning and leading community outreach activities to engage people in hands-on learning experiences.
- Helped foster an interactive and educational environment for festival attendees.

Member, Society of Physics Students (SPS), Randolph College

2023 - Present

- Collaborate with fellow members to plan and execute physics-related events and outreach activities.
- Engage in event planning and educational initiatives aimed at increasing student participation and interest in physics.

First-Year Judiciary Chair Student Representative, Randolph College

2023 - Present

- Chaired judiciary committee meetings, overseeing the adjudication of student conduct cases and policy violations.
- Interpreted and applied college bylaws to ensure fair and consistent case outcomes.

HONORS AND CERTIFICATIONS

- NSF SUPER Scholar Award Supported by The National Science Foundation, Randolph College (Aug 2023)
- Dean's List, Randolph College (Fall 2023 & Spring 2023)
- Most Outstanding First Year Student in Computer Science and Mathematics, Randolph College (2024)
- Academic MVP Award, Randolph College (SUPER)

Up Key Intern

2021 - 2022

- Developed a digital marketing strategy as part of a capstone project, resulting in a 30% increase in online engagement.
- Managed day-to-day operations, including coordinating teams and overseeing project timelines, contributing significantly to the organization's successful execution of key initiatives.

SOS Volunteer, Children's Village

2021 - 2022

- Directed a STEM tutoring program for middle school students, where I developed and delivered interactive lessons in computer programming (using Scratch to build fun games), math, and other STEM subjects.
- Organized fundraising events such as charity auctions and community drives, raising over \$600 to support educational resources for underprivileged children. Recognized as a gold member for outstanding contributions to both educational and fundraising efforts.

Projects

Ongoing Projects:

- **Matrix Operations Library:** Creating a Python library for efficient matrix operations, utilizing linear algebra concepts to support various mathematical and engineering applications.
- **Personalized Study Plan Generator:** Developing an app that creates customized study plans based on students' learning styles and performance. Uses algorithms for personalized recommendations and AI for optimizing learning paths.

Research Assistant, SUPERMinDS Program

Randolph College, 2024-2025

- **Worked on data mining and analytics using USDA crop data.**
- **Developed and implemented data visualization techniques on a website.**
- **Participated in regular team meetings for training and project updates.**

Research Assistant, Voice AI Robot Project

Randolph College,

- **Developing a voice-activated AI robot to enhance human-computer interaction using natural language processing (NLP) techniques.**
- **Implementing speech recognition algorithms to improve accuracy in real-time communication.**
- **Assisting in coding and integrating AI-driven responses, enabling the robot to understand and respond to complex voice commands.**
- **Collaborating on testing and optimizing the robot's performance in various environments for smooth interaction.**

Competitor, Hill City Robot Combat

Randolph College, November 2023

- **Built and programmed a 1-pound combat robot to compete in the Hill City Robot Battle event.**
- **Engaged in design, testing, and iterative development to enhance the robot's performance for competition.**
- **Competed against other student-built robots, applying skills in robotics, mechanical design, and problem-solving.**
- **Gained experience in real-world robotics applications through the competition, which involved combat strategy and technical troubleshooting.**

Past Projects:

- **Digital Marketing Strategy for Up Key:** Developed a marketing strategy that resulted in a 30% increase in online engagement.
- **STEM Education Program:** Created and delivered interactive lessons in computer programming (using Scratch) and other STEM subjects for middle school students.

Skills

Computer Skills: Microsoft Applications (Excel, Word, PowerPoint, Outlook); Python, Java, C; Jupyter Notebook, VS Code, Colab, GitHub, LeetCode; Machine Learning, Data Analysis

Professional Skills: Leadership and Team Management, Communication and Diplomacy, Event Planning and Coordination, Research and Analytical Skills, Fundraising and Community Engagement

Languages: English, Amharic, Spanish