

Amanuel Tefera

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Education

Hope College, Holland, MI
BA in Computer Science

Expected graduation: May 2026

Honors/Awards:

Hope forward scholarship
posse foundation finalists

WORK EXPERIENCE

Boerigter Center for Calling and Career, Holland, MI | Jan 2023 – May 2023

Career Ambassador at Hope College

- Assisted a diverse group of thirty-five students/guests by seamlessly connecting them to the comprehensive services provided by the Boerigter Center.
- Demonstrated efficiency in managing inbound and outbound calls, delivering exceptional customer service, and promptly addressing inquiries.
- Managed email correspondence adeptly, providing clients/customers with timely and accurate information.

Research at the Hope College Physics Department | Aug 2022 – Nov 2022

Hope college particle accelerator

- Conducted experimental research at the Hope College Physics Department, working under the guidance of Andrew Bunnell.
- Explored particle physics and acquired proficiency in operating the Hope College particle accelerator.

Artificial Intelligence Research Assistant, Holland, MI | Aug 2023 – Present

Hope College

- Collaborated with Dr. Omofolakunmi (Fola) Olagbemi to develop and implement an innovative AI system focused on predicting optimized motion for nurses.
- Enhanced departmental efficiency and task performance through the integration of artificial intelligence.
- Utilized XCM for effective sampling test cases, optimizing big data processing, and ensuring AI model explainability across complex frameworks.

TECHNICAL SKILLS

computer languages Languages: Java, Python, JavaScript, HTML/CSS

Libraries: pandas, NumPy, matplotlib, sklearn, seaborn, xgboost

Language: fluent in Amharic

Volunteering

Gateway Mission Men's Center, Holland, MI | August 15- August 30, 2022

- Assist staff with new client intake and onboarding processes, ensuring smooth arrival for individuals utilizing homeless shelter services
- Manage day-to-day shelter operations, coordinating client work assignments and departure logistics
- Provide exceptional customer service by receiving clients, answering inquiries, and connecting them with appropriate staff members and resources

Liberty's Promise, Wheaton, MD | Sept 2016 - June 2020

- Volunteered at park clean-ups to help beautify public green spaces in the community
- Served as Vice President for the Liberty's Promise club, supporting leadership in coordinating activities
- Took attendance accurately at every after-school program session to assist with student tracking
- Created handmade greeting cards for healthcare workers and hospitalized children to lift their spirits

PROJECTS

Website| Personal project

- Proficient in HTML and CSS for web development
- Experience with responsive design and cross-browser compatibility
- Created and maintained a personal website using HTML and CSS

Data Analysis and Classification Project | Python, NumPy, k-Nearest Neighbors (k-NN)

- Applied advanced Python programming skills to analyze and manipulate a Pokemon dataset.
- Utilized the NumPy library for efficient data manipulation and numerical operations.
- Implemented the k-Nearest Neighbors (k-NN) algorithm to classify and organize the Pokemon data set.
- Achieved accurate sorting and classification results, leveraging the power of data-driven decision-making.
- Demonstrated proficiency in machine learning techniques to enhance data understanding and categorization.