

Biruk Kibret Tefera

AC #1468 Keefe Campus Center, Amherst College, Amherst, MA 01002
btefera27@amherst.edu | (413)-466-1288

EDUCATION

Amherst College, Amherst, MA | *Bachelor of Arts*

Expected May 2027

- Cumulative GPA: **3.83/4.00**
- Prospective Computer Science and Economics Double Major

EXPERIENCE

Laterite(Ethiopia) ltd

Addis Ababa, Ethiopia

Data Analyst Intern

June 2024 – July 2024

- Assisted in the collection, visualization, and analysis of quantitative data across a sample of 4,300+ households in the most remote areas of the country using tools Excel, SQL, and Tableau.
- Successfully conducted an in-depth data analysis to identify trends and create a predictive model to forecast future trends using various frameworks such as Pytorch and Pandas in Python.
- Collaborated with cross-functional teams to collect, analyze, and report findings to federal and regional stake-holders to monitor PSNP beneficiaries' access to food and cash assistance in conflict affected areas.

Amherst College Office of Advancement

Amherst, MA

Alumni Relations Assistant

November 2023 – Present

- Supported the office by regularly maintaining and updating the Alumni database, ensuring accuracy in contact information and profiles to strengthen connections with the alumni network.
- As the first person of contact, offered phone support for Alumni having trouble with their Alumni account and anything else in addition to distributing and sorting mail.

International Science Program

Addis Ababa, Ethiopia

Academic Intern

June 2022 – August 2022

- Conducted various computer simulations, including Monte Carlo simulation aiming to model the likelihood of diverse outcomes, such as determining the value of PI and illustrating random movements in a two dimensional space.
- Made use of advanced applications such as Multisim, Labview, PhET simulation, and interface using a solar simulator to carry out experiments on electricity, Ohm's law, and I-V characterization of diodes.
- Utilized the programming languages Fortran and Python to execute the aforementioned simulations, along with a personal project that concentrated on creating visual representations of various natural phenomena.

PROJECTS

Goldilocks(An infinite universe exploration)

Amherst, MA

Developer

April 2023-May 2023

- Employed Java's OOP features to develop a space exploration game where the player explores a procedurally generated infinite universe while also shooting moobs, specific to the planet they landed on, to collect resources and be able to travel quickly.
- Made use of noise maps to generate the universe procedurally, Java's swing library for graphics, and several Data structures such as linked lists and array lists for different features of the game.
- Wrote a professional code documentation for every file used specifying its usage, application, and importance for the general code organization.

Event Simulation

Addis Ababa, Ethiopia

Team Member

July 2022–August 2022

- Made visual illustrations of several natural phenomena, such as gravity, black hole collision, and wave propagation, using LBM animation.
- Applied Fortran in Linux for managing the computational (physics) and visual rendering components of the simulations.

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, Fortran, R, Pytorch, Tableau

Tools: Git, GitHub, Visual Studio, RStudio, IntelliJ, PyCharm, Atom, Google Suite, Adobe Suite

Other skills: Communication, Problem-solving, Analytics, Public-speaking, Adaptability and Flexibility