

# Daniel Alemayehu

[daniel.alemayehu@colorado.edu](mailto:daniel.alemayehu@colorado.edu) | [linkedin.com/in/dtalemayehu/](https://www.linkedin.com/in/dtalemayehu/) | [github.com/DTAlemayehu01](https://github.com/DTAlemayehu01)

## EDUCATION

### University of Colorado Boulder

August 2023 – May 2027

*Bachelor of Science in Computer Science and Applied Mathematics*

*Boulder, CO*

- Minor in Physics, Quantum Engineering, MCDB, and Computational Biology
- Certificate in Engineering, Ethics, and Society

### Stargate High School

August 2019 – May 2023

*High School Diploma*

*Thornton, CO*

## EXPERIENCE

### SPUR Undergraduate Assistant

May 2024 – August 2024

*University of Colorado, Boulder*

*Boulder, CO*

- Collaborated with PI to develop the PETSC Rust bindings
- Presented findings on Rust's Role in Scientific Computing in Conferences
- Expanded Documentation/Functionality for PETSC-rs

### Data Structures Course Assistant

January 2024 – May 2024

*University of Colorado, Boulder*

*Boulder, CO*

- Coordinate with team to provide course office hours times through the week
- Answer questions in office hours about Data Structures and C++
- Support TAs and students in recitation by answering questions and taking attendance

## PROJECTS

### Differential Equations Modeling Project - Matlab

September 2024 - October 2024

*University of Colorado, Boulder*

*Boulder, CO*

- Applied Matlab coding and modeling skills to solve problems regarding fish population management for recreational fishing
- Collaborated and Communicated with group members to efficiently divide problem analysis

### Personal Website — HTML, CSS

March 2023 - Present

*University of Colorado, Boulder*

*Thornton, CO*

- Made a personal website to provide a place to host my current projects, commitments, and classes
- <https://dtalemayehu01.github.io/Personal-Website/>

### Mustic Merge - HTML, CSS, Javascript

March 2023 - April 2023

*University of Colorado, Boulder*

*Thornton, CO*

- Collaborated in a 5 person sprint team to deliver a project to merge several Spotify Playlists
- Wrote main NodeJS API calls to the Spotify API to merge user playlists with a variety of configuration options
- Presented a technical demonstration of our project to 200+ Students and Faculty

## AWARDS

### CB National Recognition Program: National African American Recognition

August 2022

*CollegeBoard*

*Thornton, CO*

- Awarded for obtaining a 3 or more on two or more AP Exams
- Recognition of Hardwork and Dedication

### Dean's List

Fall 2023, Spring 2024

*CU Boulder*

*Thornton, CO*

- Awarded for maintaining a 3.6+ GPA as full-time student

## TECHNICAL SKILLS

**Languages:** Javascript (Nodejs), Python (Pandas, Numpy, Matplotlib, Plotly) , C/C++, HTML/CSS, SQL, Rust, Matlab, Sagemath, Assembly x86

**Developer Tools:** Git, Docker, VS Code, Github, Linux (Arch, Debian), Jupyterlab, Latex

**Interpersonal:** Collaboration, Teamwork, Leadership. Organization, Supervision, Presentation