

# Josiah Shehata

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## SUMMARY

Sophomore in college with a passion for technology. Currently enrolled in twenty credits as a double major in Applied Mathematics and Computer Science, while also working as a Matrix Methods' Course Assistant and Calculus tutor. Eager to engage in the computer industry through developing software, building applications, and exploring modern skills.

## EDUCATION

- University of Colorado Boulder**, Boulder, CO
- Bachelor of Science, GPA 3.86
- Expected May 2027
- Front Range Community College**, Westminster, CO
- Associates of Science, GPA 3.94
- May 2024
- The Summit Academy**, Westminster, CO
- High School Diploma, GPA 4.3
- May 2024

## EXPERIENCE

- Course Assistant & Tutor**
- University of Colorado Boulder, Boulder, CO
- Jan 2025 - Present
- As a freshmen, mentored students learning Differential Equations
  - Collaborated with other tutors to assist students in Calculus I, II & III
  - Managed a help room with over fifty consistent visitors
  - Tasked with weekly responsibility of grading 110 students' homework
- Supplemental Instructor**
- Front Range Community College, Westminster, CO
- Sept 2023 - May 2024
- Assisted in the mathematical education of 70+ students
  - Demonstrated challenging problems during lectures
  - Cultivated a healthy environment for studying and learning
  - Tutored students one-on-one in difficult topics
- Landscape Laborer & Salesmen**
- Landscape Care Associates, Lafayette, CO
- Summer 2024, May 2025
- Maintained lawns of over 60+ customers
  - Installed projects involving multiple tons of rocks
  - Pioneered relationships with new clients
  - Organized strategies related to advertising and marketing

## PROJECTS

- File System Simulator** (C++)
- Fall 2024
- Developed a system that sorted files using an N-ary tree
  - Worked primarily on implementing standard bash commands
- Derivative Calculator** (C++)
- Spring 2024
- Implemented a program that can differentiate polynomials
- Black Scholes Equation** (Applied Math)
- Fall 2024
- Explored the applications of Fourier Series in financial options

## COURSES

- Applied Mathematics
- Previous*
- Complex Variables
- Discrete Math
- Fourier Series
- Matrix Methods

- Current*
- Analysis I

- Computer Science
- Previous*
- Algorithms
- Computer Science I
- Computer Systems
- Data Structures

- Current*
- Computer Graphics
- Cybersecurity
- Database Systems
- Software Dev

## SKILLS

- Technical
- C/C++
- LaTeX
- Linear Algebra

- Professional
- Analytical
- Diligent
- Thorough

## ACTIVITIES

- Foodbank Volunteer
- Intramural Soccer
- Navigators Laborer
- Teen Camp Volunteer