

ABENEZER AMANUEL

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EDUCATION

Columbia University

BA Computer Science, **GPA: 4.0+**

New York, NY

Sep 2021 - May 2025

Relevant Coursework: Intro to Programming in Java, Data Structures in Java, Calculus III, Discrete Mathematics, Advanced Programming in C, Linear Algebra, Computer Science Theory, CS50x (Harvard Online Course)

SKILLS

Programming Languages: Java, Python, C, JavaScript, MySQL
Frameworks/Soft Skills: React, Flask, Socket API, Git, Mentorship, Teaching Assistance
Spoken Languages: English (fluent), Amharic (native), Spanish (beginner)
Volunteer Experience: Community Market, Ford Hall Food Pantry, Macedonian's Humanitarian Assoc.

WORK EXPERIENCE

Emerging Scholars Program (ESP)

Columbia University, New York, NY

Workshop Assistant

Sep 2022 - Dec 2022

- Facilitated classroom discussion and supported peer leader in 20-student workshop class designed to introduce undergraduates to the field of computer science. Instigated questions, facilitated breakout rooms, and gave introductory lectures on topics such as Machine Learning and Computer Vision.

Counseling and Test Preparation Ethiopia (CTP Ethiopia)

Addis Ababa, Ethiopia

Mentor, Tech Team Lead

May 2022 - Aug 2022

- Mentored approximately 200 Ethiopian high school students on the US college application process. Gave in-person as well as virtual lectures on topics such as college search, financial aid, and SAT prep.
- Fast-tracked the digitization of our instruction methods by designing and building a course-works web app where our mentees could access mentor-released files and videos in an organized format.
- Improved organization-wide record management and allowed personalized profile creation for mentees by integrating a database into the course-works web app.

KEY PROJECTS

Multi-process Static Web Server C

<https://github.com/AbenezerA/static-web-server>

- Created a web server in C that serves files from a provided root directory to an HTTP client. The server can handle multiple simultaneous HTTP requests, is robust against client failure, and works with both command-line clients and browsers.

CTP Summer 2022 Course Works Web App

https://github.com/AbenezerA/ctp2022_courseworks

Python, Flask, HTML, CSS, MySQL

Video demo: <https://youtu.be/0o8IxUn11Z0>

- Designed and built a web app using Flask which allowed students enrolled in the CTP Ethiopia mentorship program to create accounts and register into the organization's database, where they could access mentor-released instruction videos, homework, and guides, thus enhancing user experience.
- Implemented interfaces for admin to keep record of registered students and for mentors to easily upload instruction material, improving teaching efficiency and expediting the digitization of our instruction material.

Image Recoverer C

- Built a command-line program in C that recovers deleted JPEG files from an input forensic image file by scanning for JPEG signatures in the file's byte sequence.

Image Filter C

- Built a command-line program in C that applies a selected filter (grayscale, reverse, blur, or edge detection) to an image by altering the RGB values of each of its pixels.

Dijkstra's Algorithm Java

- Designed an implementation of Dijkstra's algorithm in Java which calculates the shortest path between a group of cities by representing them as nodes in a graph.

AWARDS AND CERTIFICATES

Kluge Scholar

Columbia University, New York, NY

Dean's List: Fall 2021, Spring 2022, Fall 2022

Columbia University, New York, NY

Certificate of Completion of CS50x

Harvard University, Cambridge, MA