

ABENEZER AMANUEL

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EDUCATION

Columbia University

BA Computer Science, GPA: 4.0+

New York, NY

Sep 2021 - May 2025

Honors: Dean's List (Fall 2021, Spring 2022, Fall 2022, Spring 2023)

Relevant Coursework: Intro to Programming in Java, Data Structures in Java, Calculus III, Discrete Mathematics, Advanced Programming in C, Linear Algebra, Computer Science Theory

SKILLS

Programming Languages: Python, JavaScript, Java, C, MySQL
Frameworks/Tools: React, Flask, Socket Programming, MySQL, Supabase, Git
Interests: Software Engineering, Full-stack Development, Mentorship, Teaching Assistance
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 - May 2023

- Facilitated classroom discussion and supported peer leader in 20-student workshop class designed to introduce undergraduates to the field of computer science by instigating questions, facilitating breakout rooms, and giving introductory lectures on topics such as Machine Learning and Computer Vision.
- Provided support for students by developing strong relationships, offering constructive feedback, and voicing their concerns to the department heads.

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 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

Discussion Forum React, JavaScript, HTML/CSS, Supabase

<https://collegeappforum.netlify.app/>

- Designed and built a web forum using React allowing students to discuss the process of applying to college through creating and commenting on each other's posts.
- Integrated a database via Supabase, simplifying the process of creating, editing, deleting, and interacting with posts and thus facilitating greater discussion than traditional group chats or text-messaging.

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. By integrating signal-handlers and forking with socket programming, the server can handle multiple simultaneous HTTP requests and is robust against client failure.

CTP Summer 2022 Course Works Web App

https://github.com/AbenezerA/ctp2022_courseworks

Python, Flask, HTML, CSS, MySQL

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

- Built a web app using Flask which allowed students enrolled in the CTP Ethiopia mentorship program to create accounts and access mentor-released instructional videos, homework, and guides in an organized format. Allowed for the effective management of the information of our mentees by integrating a database into the web app.
- Implemented interfaces for admin to keep record of registered students and for mentors to easily upload instruction material, leading to a more efficient and organized process of teaching in comparison to previous methods of releasing content to Telegram and YouTube channels.

Image Recoverer C

<https://github.com/AbenezerA/recover>

- Built a program in C that allows the user to recover deleted JPEG files from a forensic image file by scanning for JPEG signatures in the file's byte sequence.

AWARDS AND CERTIFICATES

Kluge Scholar

Columbia University, New York, NY

Certificate of Completion of CS50x

Harvard University, Cambridge, MA

Certificate of Completion of CodePath's Intermediate Web Development Course

CodePath.org