Abenezer Amanuel

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https://linkedin.com/in/abenezer-amanuel · https://github.com/AbenezerA · Portfolio

Education

Columbia University New York, NY
B.A. Computer Science, GPA: 4.0+ Sep 2021 - May 2025
Honors: Kluge Scholar, Upsilon Pi Epsilon, Phi Beta Kappa
Relevant Coursework: Data Structures, Linear Algebra, Advanced Software Engineering, Databases, UI Design, Discrete Math, Artificial Intelligence, Computer Graphics, Natural Language Processing

Skills

Programming Languages:	Python, Kotlin, Java, TypeScript
Frameworks/Tools:	React, Node.js, Flask, Telegram Bot API, UNIX Sockets, Cursor, Rive
Databases:	MySQL, Supabase, Amazon S3
Extracurricular:	African Development Group (Public Relations Chair)

Work Experience

Duolingo Inc. - Software Engineer | Pittsburgh, PA June 2025 – Present
- Owned and shipped core Android platform work affecting most app surfaces, including animation tooling, avatar rendering, and typography, with changes safely rolled out behind experiments and used by designers and creative technologists.
- Built exploratory prototypes to evaluate new rendering libraries and interactive advertising formats, enabling early feasibility decisions and avoiding unnecessary engineering investment.

Duolingo Inc. - Software Engineer Intern | Pittsburgh, PA May 2024 – Aug 2024
- Enhanced an internal tool to allow assessment scientists on the Duolingo English Test team to run studies and gather data from optional practice test flows.
- Implemented the collection and storage of mic, screen, keystroke, and audio transcription data from 210 test sessions. Created interfaces for researchers to easily access and analyze the data.
- Collaborated with linguists and assessment scientists to analyze the collected data and discuss the ability of certain question types to measure English proficiency.

Columbia Emerging Scholars Program - Peer Leader | New York, NY Sep 2023 - May 2025
- Led weekly workshop classes designed to introduce students to broad Computer Science topics such as algorithms, Natural Language Processing, Machine Learning, and computer ethics.
- Facilitated discussions and engaged with students by answering their questions and connecting them to campus resources.

LangBot Inc. - Software Engineer Intern | Remote Work June 2023 – Sep 2023
- Developed and deployed a TypeScript-based Telegram bot utilizing the Telegram Bot API to teach English grammar skills to more than 6000 Ethiopian high school students.
- Researched sources of English grammar questions for automated question posting functionality. Incorporated the Open AI API and GPT to generate questions on the fly, enhancing the bot's capabilities.

Key Projects

Discussion Forum *React, JavaScript, HTML/CSS, Supabase* *https://collegeappforum.netlify.app/*
- 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.