

Abenezer Alebachew Endalew

Software Engineer | Python | MERN | Flask

<https://abeni-codes.netlify.app/>

abenezeralebachew3@gmail.com

+251929341497

Addis Ababa, Ethiopia

[linkedin.com/in/abenezer-alebachew](https://www.linkedin.com/in/abenezer-alebachew)

github.com/abeni-al7

Description

A passionate and driven Software Engineer eager to learn and pick up new technologies and frameworks quickly and independently. Loves working with Python, but can work with JavaScript too. Specializing in backend development with a full-stack expertise.

Projects

2024/10

VERSEWise RAG Based Biblical Chatbot [↗](#)

A chatbot built to provide answers to biblical questions

I helped build a RAG based chatbot as part of the Hack Addis 2024 hackaton hosted by Great Commission Ethiopia.

- I built the backend of the Content Management System that allows admins to provide content that is used as a reference for the RAG framework with Flask.
- I asynchronously connected all the content management happening in the relational database of the CMS to the Vector Database that is used by the RAG framework using Rabbit MQ as a message broker to send the information to the service that updates the Vector database based on the content in the relational database I designed.
- I implemented a user management system that enforces user access control for different API endpoints
- I dockerized the CMS backend service and made it available through docker-compose.

Our team won the hackathon and we have deployed the project on <https://versewise.io>

[↗](#) and on telegram at <https://t.me/VerseWiseBiblicalBot> [↗](#). We are now maintaining and building upon it as an open-source project.

CRU-RAG [↗](#) [github project](#)

Web app [↗](#) web app interface to chat with VERSEWise

2024/07 – present

Peniel International Church Website [↗](#)

A website built to fundraise for a building project the Church was undertaking

I built the website of Peniel International Church using React.js with Tailwind CSS for styling.

- I integrated Chapa as a payment gateway to receive donations for the building project of the Church.
- I designed the website to be responsive on both mobile devices and large screens.
- I used framer-motion to provide a smooth scrolling experience for the website

2024/09

Online Learning Platform [↗](#)

A web application built with Flask

I built an Online Learning Platform Flask and Bootstrap.

- I implemented a secure role-based authentication for course creators and students.
- I designed the database schema to manage teachers, students, courses and enrollment data.
- I implemented a file upload and download functionality for course content

2024/05 **TutorConnect** [↗](#)
A mobile app built with Flutter
I built TutorConnect for Android devices with flutter and firebase.

- I implemented real-time chat feature for parents to communicate with tutors
- I used cloud firestore to store the data of students and tutors and I created a UI for student profiles and tutor profiles with flutter

2023/05 **AirBnB clone** [↗](#)
Built with Flask
I built the clone of AirBnB with Flask

- I implemented authentication, database integration and user management with Flask
- I created a simple UI with HTML, CSS and JavaScript to access the web-app
- I created a shell to test out the APIs using the command-line for testing purposes
- I wrote unittests to ensure the app works flowlessly

2023/11 **Aben Shell** [↗](#)
A Linux command-line interpreter built with C
I built a command line interpreter (shell) with C to practice my low-level programming skills and get a grasp of the Linux Kernel.

- I implemented Command execution, error-handling, access to environment variables
- I carefully managed the memory each process took and avoided memory leaks

Skills

Python — • HTML • CSS • JavaScript • Flask • MySQL • MongoDB • Redis • RestAPI • NodeJS

Education

2023/09 – present **BSc Computer Science**
Addis Ababa, Ethiopia *Addis Ababa University* [↗](#)
I am a 3rd Year student specializing on my software engineering skills with a keen interest in python

ExtraCurricular

2024/10 – 2024/10 **Accenture UK Developer and Technology Virtual Experience Programme on Forage - October 2024**

- Completed the Developer and Technology Job Simulation where I developed an end to end understanding of the Software Development Lifecycle.
- Conducted in-depth research into emerging technology trends, particularly in the field of DevOps, demonstrating a proactive approach to staying informed about the rapidly evolving tech landscape.
- Created and delivered a compelling PowerPoint presentation analysing and comparing Waterfall and Agile methodologies.
- Designed a custom algorithm using pseudocode and effectively communicated its logic by creating a detailed flow diagram.
- Debugged a program written in Python by fixing syntax and logic errors in the code.