

# BEREKET BIRHANU

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## Objective

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Results-driven Backend and Generative AI Engineer with a strong background in machine learning. Adept at designing and implementing advanced AI solutions, including backend systems and generative models. Seeking to leverage my expertise in AI and machine learning to contribute to innovative projects and drive technological advancements.

## Education

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### UDEMY

- Completed a comprehensive array of Udemy courses, including Python, JavaScript, Django, and React. Continuously expanding my skill set to stay at the forefront of software development.
- Dedicated to continuous learning, I've acquired a wealth of practical knowledge through Udemy courses and self-directed study. This journey has equipped me with real-life skills, making me competitive in the dynamic job market. I've discovered the power of self-teaching, ensuring that I'm always prepared for any professional challenge.

### ALX

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- AWS - on progress
- Back-end engineering

### BSc. in Software Engineering student

*Debre Berhan*, Ethiopia

[Debre Berhan University](#)

Jul 2021 - June 2025

- Bachelor of Software Engineering,
- Relevant Coursework:** Data Structures and Algorithms, Object Oriented Design, Operating Systems, Database Systems, Networking Essentials, Artificial Intelligence.

## Experience

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[Intuitive ventures | hubbits](#)

Addis Ababa, Ethiopia

Full-stack Engineer, Intern

dec 2023 - feb 2024

- Conducted quality assurance testing for a freelance website
- Made valuable contributions to the frontend page redevelopment....
  - Activities:** weekly retrospective meeting, standup meetings, design discussions, code review, sprint planning

[CREAVERS](#)

Addis Ababa, Ethiopia

AI and ML Engineer, Intern

may 2024 - present

- Developing a Medical Assistant Bot for Online Hospital Appointments and Support
- Developing an AI Agent for Admin Panel: Online Certification Verification and Authentication

**Activities:** weekly retrospective meeting, standup meetings, design discussions, code review, sprint planning

[Fanaye | technologies](#)

Addis Ababa, Ethiopia

Back end and Ai Engineer, Intern

June 2024 - present

- Developing Multiple AI Agents for a Major Startup Initiative
- Developing and Implementing AI Solutions for Recruitment and Data Analysis

**Activities:** weekly retrospective meeting, standup meetings, design discussions, code review, sprint planning

## Projects

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[Chat website](#)

- Developed a real-time chat website using **Django Channels**, which extends Django to handle WebSockets and asynchronous communication. The application enables users to engage in instant messaging, group chats,.
- Utilized Django Channels, Redis, Channels Layers, WebSockets, HTML, CSS, and JavaScript.

[Simple blogsite](#)

- Developed a basic blog site using Django that showcases CRUD functionality. Users can create, view, update, and delete blog posts. The application leverages SQLite3 as the database backend. Although it's a work in progress, it serves as a great learning exercise for understanding web development with Django.
- Django, SQLite3, HTML/CSS, Django Admin Site.

[RESTful backend](#)

- Developed a straightforward RESTful backend using Django to handle CRUD (Create, Read, Update, Delete) operations. The project focuses on building an API for managing resources efficiently. Although it's a basic implementation, it serves as a solid foundation for understanding RESTful architecture..
- Django ,Django REST Framework (DRF),SQLite3,HTTP Methods (GET, POST, PUT, DELETE),Serializers, [AI ASSISTANT BOT / DEPLOYED](#)

- Developed an AI assistant bot leveraging Flask for the backend infrastructure and LangChain for advanced language model capabilities. This project utilizes the Groq API with the LLaMA 3 model to deliver intelligent, context-aware responses.
- SQLAlchemy, MySQL,Flask, Python,LangChain,JSON, Data Serialization,Modular Design, MVC Architecture

#### [Admin panel controller Ai Agent - in Progress](#)

- Developed an AI assistant bot leveraging Flask for the backend infrastructure and LangChain for advanced language model capabilities. This project utilizes the Groq API with the LLaMA 3 model to deliver intelligent, context-aware responses.
- SQLAlchemy, MySQL,Flask, Python,LangChain,JSON, Data Serialization,Modular Design, MVC Architecture , Vector Database

## **Skills**

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[Programming language](#) - Python, JavaScript, c++ ,

[Frameworks](#) - Django,FLASK,NODE.JS, Express,React, Git, numpy,matplotlib,LANGCHAIN

[Databases](#) - MySQL, MongoDB, SQLite,PostgreSQL,VectorDbs

[Soft Skills](#) - Communication, Leadership, Team work

## **Others**

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- Achieved an outstanding cumulative GPA during my Bachelor's degree in Software Engineering
- Engaged in a competitive programming contest organized by ALX and ETCPC, successfully solving over half of the challenging questions