

Hagernesh Tadesse

Software Engineer , Associate Data Scientist, Innovation Fellow, CTO

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 Ethiopian

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Profile

Experienced Software Engineer and Certified Data Scientist with a track record of delivering high-quality code and extracting valuable insights from complex data. African Union Digital Innovation Fellow Skilled in designing innovative software solutions and leveraging data-driven insights to drive business success. Expertise in statistical analysis, cloud computing, machine learning, and data visualization, collecting, cleaning, and analyzing complex data sets to uncover patterns, trends, and actionable insights and a collaborative mindset for tackling complex technical challenges. Seeking opportunities to contribute expertise, drive innovation, and make a meaningful impact. Proficient in Python, Java, PHP, Laravel, .NET, SQL, ABAP Programming, OOP and Microsoft SQL Server. Founder and CTO of Mytutor startup company combined with quick learning and excellent problem solving ability.

Professional Experience

present

Addis Ababa, Ethiopia

Africa Union, Digital Innovation Specialist

- Developed AUHandbook mobile app which digital version of AUHand books and with Feature like Treaty tracking the country has signed which treaties and when plus real time notification currently under testing and Iteration
- Developing mobile app for Agenda2063 which is a platform for Member states, Diaspora, policy makers and citizens engage with Features like News, Events, Citizen Talk, AUECHO, Flagship Projects, Aspirations plus Goals supporting AI powered chatbot as well as multi language with real time support
- Conducted discussions with stakeholders, gathered requirements for system improvements.
- Designed Databases for apps under development.
- Developed Admin Panel for AU Treaties to help legal department update, and monitor status of Every agreement and treaties.
- Discovered Gaps and recommended a better integration, search and filter functionalities on Exsiting knowledge management system.
- Prepared and delivered proposal on innovative project that can enhance the AU achieve a better data management and made its resources used efficiently.
- Assisted Media team of AU and created platform for information dissemination to 200+ journalists during 38th AU summit in February 2025.

November 2023

Addis Ababa, Ethiopia

Mytutor, Cheif Technology Officer

- Prepared and maintained the Software Requirements Specification (SRS) document for my tutor e-learning platform.
- Work on Local language support and payment Integration.
- Supervised the technology team, guiding on technologies and development methodologies.

- Oversaw product development and ensured alignment with user needs and SRS.
- Conducted system testing and established quality assurance protocols.
- Ensured robust, scalable, and secure platform architecture.
- Managed the technology budget and resource allocation.
- Communicated technology strategies to co-founders and stakeholders.
- Led and mentored team members in software development best practices.

July 2023 – present

TheRecordConsults, Assistant Manager [🔗](#)

TheRecord Consults

Assistant Manager

- **Network Expansion:** Leveraged a robust network of contacts to facilitate the verification of documents, ensuring compliance with local laws and regulations.
- **Leadership and Management:** supervised more than 10 Person of Contacts (POCs) across different regions of the country.
- **Data Analysis:** Conducted thorough analysis of verification data to assess trends and identify potential issues, providing actionable insights to enhance operational efficiency.
- **Reporting:** Prepared comprehensive reports on the status of verification checks for submission to the main office and the company CEO, ensuring timely communication and decision-making.
- **Stakeholder Engagement:** Collaborated with Issuing Authorities (IAs) to explain the importance of swift responses to verification inquiries, emphasizing the impact on candidates seeking employment abroad.
- **Problem Solving:** Identified and implementing legal strategies to overcome verification challenges, ensuring a smooth and efficient process.

December 2022 –

November 2024

Addis Ababa, Ethiopia

Commercial Bank of Ethiopia, Junior Developer [🔗](#)

- Designed a database and developed database for Credit system that under developement using SQL.
- Created reusable components to reduce development time for new projects by 15%
- Developed an API that enabled data exchange between different systems
- Collaborated with designers, product owners, and other stakeholders to develop user-friendly features that improved user engagement by 25%

Ethio Life and General Insurance

July 2022 –

December 2022

Addis Ababa, Ethiopia

System Administrator

- Developed an Application software that improved efficiency and reliability by 50%.
- Developed a backup and recovery system to ensure the availability of data in the event of a system failure.
- Designed databases using SQL on SQL Server DBMS.
- Conducted User Acceptance Test of Core Insurance System, resulting in a 25% increase in system speed.
- Conducted User Acceptance Test of Core Insurance System, resulting in a 35% increase in system maintainability and Scalability.
- Developed a desktop app system for management of vehicles, resulting in a 20% increase in system speed using .NET and SQL.

January 2022 –
June 2022
Addis Ababa, Ethiopia

IT Officer

- Developed Legal Department Management system using C#.NET, SQL server which increases department productivity by 35%.
- Collaborated with the IT Team to ensure that security software was properly installed on all employee computers.
- Received constructive criticism well and turned it into an opportunity to grow and improve.
- Troubleshoot network and Hardware issues on employees computer of over 26 branches.
- Support branch managers as well as users to solve their network, system and hardware issues resulting 45 % of Operation efficiency increases.
- Remotely support and assist branches to keep business running without any disruption achieving 90% customer satisfaction.
- Resolved complex technical issues that reduced downtime and improved system performance

Education

October 2018 – present
Addis Ababa, Ethiopia

BA in marketing management, Unity University

October 2017 –
September 2021
Addis Ababa, Ethiopia

BSc/ Software Engineering, Addis Ababa Science and Technology University

Certificates

Datacamp Certified Data Scientist — • **Data Science and Engineering Bootcamp** —

Intermediate Level • **Google Cloud** — Associate • **AI for Business** •

AWS Machine Learning Foundation — Foundation • **Python Programming** — Intermediate
Level • **Backend Development** — Node js

Skills

Data Analysis

SQL ,Python



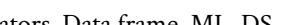
Data Visualisation

Seaborn, Power BI, Python



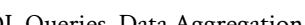
Python Programming

OOP, Data structures, Decorators, Data frame, ML, DS



SQL

SQL server, Intermediate SQL Queries, Data Aggregation



.NET Core

.NET core API, MVC architecture



C#

Desktop app development



Data Modelling



Django

API development



Web Scraping

BeautifulSoup, Scapy



Google Cloud Platform

I have completed 25 quicklabs projects successfully on Google Cloud Platform

Web development

HTML, CSS, JavaScript, PHP Laravel,



Data Management



SAP ABAP programming

I am taking SAP ABAP programming on Udemy.



Database Design

Data modeling, Database Structure Design, DBMS

Soft Skills

Collaboration, Problem-Solving, Stakeholder Communication, Teamwork, Adaptability, Leadership, Time Management, Attention to Detail, Self-Motivation, Innovation.



Languages

English

Amharic

Afaan Oromoo

Basic Spanish

Projects

Mytutor, Dynamic Tutoring and Course enrollment

Weather App, Weather Api, Flutter

I have developed and published a Weather App on github using flutter along with Weather Api and Integrated location to fetch weather data including Humidity, Latitude, Longitude, Temperature, Visibility and Sunrise and sunset of any cities across the globe

The GitHub History of the Scala Language

Find the true Scala experts by exploring its development history in Git and GitHub.

Predicting Credit Card Approval [🔗](#)

I built an automatic credit card approval predictor using machine learning techniques.

Sentiment Analysis, NLP [🔗](#)

Android App market on Google play Store [🔗](#)

I have done following Data cleaning, Correcting data types, Exploring app categories, Distribution of app ratings, Size and price of an app, Relation between app category and app price, Filter out "junk" apps, Popularity of paid apps vs free apps and sentiment analysis of user reviews

February 2025 – present

Agenda2063, Agenda2063 under development project

References

Markos Amsalu Muche, *Machine Learning Engineer*, Icardio.io

markosmuche2018@gmail.com, +251943542767

Stephen Amoakoh, *CTO*, ACN

donkors@africa-union.org

Awards

31st October 2021

Certificate of Excellence, Goethe Institute [🔗](#)

I awarded Certificate of Excellence by Goethe Institute for being second place winner of Gamejam session held at Iceaddis in collaboration with GIZ, Chewatacon Ethiopia and Goethe Institute.

December 2020

Finalist at AI4Dev, AI4Dev [🔗](#)

AI For Development

AI for Development (AI4Dev) is a challenge that aims to identify great ideas in **Artificial Intelligence (AI)** and utilize its impact on **4 Sustainable Development Goals (SDGs) in the Arab & African states**.

First Place Winner, Addis Ababa Science and Technology University

Won first place honor in competition held in our Campus Girls Hackathon

31st October 2019

AI for Climate Chnage Winner, Addis Ababa University [🔗](#)

AI for Climate Change Competition held at Addis Ababa University in collaboration with Wolaita Sodo University. Awarded Masters Scholarship at Wolaita Sodo University. Which Gathered Participants of Every University in Ethiopia.