

HUSEN YUSUF ABEBAW

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Summary

Full Stack Developer with over three years of experience, specializing in Python, FastAPI, NestJS, React/NextJS, and Flutter to create comprehensive web and mobile applications. I have proven expertise in integrating advanced AI, developing intelligent conversational assistants, and implementing computer vision solutions to enhance user interaction and operational efficiency.

Education

Addis Ababa University

Bachelor of Science, Software Engineering (AI Stream)

Sep 2020 - Jun 2025

Addis Ababa

- **GPA:** 3.84 / 4.0
- **Achievements:** Top 5% score in the college

EXPERIENCES

NAS Printing and ICT Solutions

Software Engineer

Jan 2025 - Present

Addis Ababa, Ethiopia

- Led as the technological lead at NAS Printing and ICT Solutions, overseeing the development and implementation of digital products, which improved operational efficiency
- Designed and developed client-facing websites, mobile applications, and custom systems tailored to business requirements, enhancing user engagement and satisfaction
- Delivered solutions for consultancy firms, travel agencies, and private healthcare institutions using NestJS and Prisma, leading to streamlined operations and increased client satisfaction
- Led and mentored a team of interns, providing hands-on training and technical guidance, which supported their growth and ensured project success

Ethiopian Artificial Intelligence Institute

Software Engineer Intern

Apr 2024 - Aug 2024

Addis Ababa, Ethiopia

- Contributed to the development of an Amharic-speaking chatbot for a humanoid robot at the Ethiopian Science Museum, enhancing visitor engagement and interaction
- Developed face detection and recognition algorithms to identify high-profile officials and pre-registered guests, ensuring personalized interactions and improved security
- Implemented voice-to-text and text-to-voice conversion systems to enable the robot to communicate in Amharic, improving accessibility and user experience

Liwasoft

Fullstack Developer

Mar 2024 - Dec 2024

Remote

Designed and implemented full-stack solutions for online restaurant report tracking systems, monitoring sales, inventory, and performance metrics.

- Built a QR code-based restaurant menu system that enabled customers to browse menus and place orders seamlessly via their smartphones.
- Developed customized online and in-person meal ordering systems, ensuring flexible and user-friendly order management.
- Implemented secure and efficient payment systems, applying best practices and modern development frameworks.

QawQal

Mobile App Developer

Oct 2023 - Dec 2023

Remote

Collaborated with a team to develop the QawQal super app using the Flutter framework.

- Engineered private and group chat features for the Qawwal app, enhancing real-time communication and contributing to over 10,000 downloads on the Playstore.
- Developed video and audio call functionalities for the Swil MiniApp, boosting user interaction and engagement, which led to higher user retention rates
- Integrated RESTful and GraphQL APIs to ensure seamless data exchange and maintain robust app performance, contributing to a smoother user experience and reduced app downtime

A+ Tutorials

Telegram Developer

Apr 2023 - Nov 2024

Addis Ababa

- Developed Telegram bots for student registration, tutorial access, and automated payments.
- Built Telegram Mini Apps for tutorial upload (admin) and viewing (students).
- Integrated payment handling and user verification.
- Automated customer support, group management, and content posting.
- Led all Telegram-based development, improving onboarding and operational efficiency.

Skills

- **Programming Languages:** Python, Javascript/Typescript, Dart, C/C++, Java
- **Frameworks:** Flutter, ReactJS, NextJS, NestJS, ExpressJS, Django, FastAPI, Tailwind CSS

- **Databases & BaaS:** MySQL, MongoDB, PostgreSQL, SQLite, Prisma, Drizzle, Firebase, Supabase
- **Tools:** Git, Github, Figma
- **AI & Machine Learning:** OpenAI, LangChain, CrewAI, Optical Character Recognition (OCR), STT/TTS, Image Recognition (CV)

Projects

Amharic Braille Reader

Feb 2024 - Apr 2024

Addis Ababa

- Braille to Amharic text conversion
- Text-to-speech synthesis
- Image processing for Braille recognition
- Educational interface & Accessibility compliance

Selam - Humanoid Amharic-Speaking Robot

Apr 2024 - Aug 2024

Ethiopian Artificial Intelligence Institute

Addis Ababa

- Selam is a groundbreaking humanoid robot designed to communicate in Amharic, making it the first of its kind. This project involved developing sophisticated AI systems for natural language processing, face recognition, and voice synthesis specifically tailored for the Amharic language.
- Amharic speech recognition and synthesis
- Face detection and recognition for VIP guests
- Natural conversation capabilities
- Museum guide functionality

QawQal SuperApp | [PlayStore](#) | [PlayStore](#)

Oct 2023 - Dec 2023

QawQal

Remote

- QawQal is a comprehensive super app that integrates multiple services including social media, messaging, video calls, and entertainment streaming. The app was designed to provide a seamless user experience across different digital services.
- Real-time messaging and group chats
- Video and audio calling
- Social media feed and sharing
- Movie and video streaming

AI-Powered Virtual Tourism

Dec 2024 - May 2025

Addis Ababa

- Navigate high-resolution panoramic visuals of heritage sites with intuitive pan-and-zoom controls.
- Real-time, voice- or text-based conversations to ask complex questions and hear dynamic stories about the sites you explore.
- Intelligent, data-driven recommendations for new sites based on your demonstrated interests and exploration history.
- Can interact with the platform and AI guide in both English and Amharic.

Languages

- English (Advanced)
- Arabic (Advanced)
- Amharic (Native)