# **Peter Messay**

# Developer



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# **PROFILE**

Dedicated Software Engineering student with expertise in full-stack web development and artificial intelligence, currently interning at INSA. Proficient in building scalable applications using React, TypeScript, Node.js, Express, and PostgreSQL, with additional experience in the MERN stack (MongoDB, Express, React, Node.js). Demonstrated success in AI-driven projects, including developing a Retrieval-Augmented Generation (RAG) system for sentiment analysis on Amharic social media comments, creating an Amharic question-answering RAG application for context-aware responses, and building an EUEE QA AI system to enhance educational accessibility. Passionate about leveraging machine learning and full-stack development to solve complex challenges, I am committed to continuous learning, embracing emerging technologies, and contributing to innovative, real-world projects during my internship and beyond

# SKILLS

- Full stack developer
- Machine Learning and AI
- Python, Flask
- Database Mongodb, Postgres



#### Amharic RAG QA Application 🛭

Amharic RAG QA Application, I contributed to the development of a tool designed to assist legal professionals by retrieving relevant legal documents and generating precise, context-aware answers in Amharic. This system significantly improves decision-making speed and accuracy in legal environments

#### Insa Wheels Tracker

A real-time tracking system for INSA transportation services that allows employees to track their assigned transportation vehicles.

#### EUEE question answering AI

UEE AI Question Answering System, a project designed to extract, structure, and provide intelligent answers to questions from the Ethiopian University Entrance Exam (EUEE), with a focus on subjects like Chemistry, Physics, and more. This repository includes tools for processing scanned PDF exams, structuring extracted text, and deploying a multi-platform QA system using Telegram, FastAPI, and Streamlit interfaces, powered by AI models like SentenceTransformers and Google Gemini

#### ProLogiX 🖸

The Product and Logistics Management System is a web-based solution designed to address real-world challenges faced by importers, exporters, and manufacturers. It provides real-time, item-level visibility of products from packaging to delivery, enhances supply chain efficiency, and empowers businesses with actionable customer feedback. Built with modern technologies, the system supports barcode tracking, expiration alerts, customer sentiment analysis (Gold/Silver/Bronze ratings), and defect tracing, making it scalable for local enterprises and global expansion.

#### **Book Store App:**

Book Store App: Designed and developed a dynamic Book Store application using the MERN stack (MongoDB, Express, React, Node.js). Implemented features for inventory management, user authentication, and seamless user interactions.

# E-commerce Website

Developed ecommerce website using react react-redux and redux-saga

#### Rock vs. Mine Prediction:

Rock vs. Mine Prediction: Developed a predictive model to classify sonar signals as either rocks or mines. Leveraged machine learning techniques to analyze the sonar data, resulting in a reliable tool for underwater exploration and safety

# Boston House prediction $\Box$

Boston House prediction

# Student Management System 🛭

Developed a comprehensive Student Management system with HTML, CSS, JavaScript, and PHP. Contributed significantly to improving administrative efficiency.