YOWHANS NIGUS GIRMAY

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## PROFESSIONAL SUMMARY

Computer Science graduate and full-stack developer with hands-on experience in designing and deploying web applications using the MERN stack (MongoDB, Express, React, Node.js). Skilled in building solutions ranging from service platforms to booking systems and speech-to-text applications, including a Tigrigna Speech Recognition project leveraging OpenAI's Whisper model. Adept at translating requirements into functional products with responsive design, secure backend services, and user-focused features. Strong collaborator with experience in both individual and team-driven projects, passionate about creating impactful digital solutions that improve accessibility and user experience.

## EDUCATION

**Bachelor of Science in Computer Science and Engineering**
Mekelle University, MIT Campus (2011 E.C – 2017 E.C)

## SKILLS

- **Programming:** Python, JavaScript, C, C++
- **Web Development:** Node.js, React.js, HTML, CSS, RESTful APIs
- **Databases:** SQL, MongoDB
- **Tools/Other:** Git, Networking

## PROJECTS

**Tigrigna Speech-to-Text System** – Final Year Project
Coordinated a team project to fine-tune OpenAI's Whisper model for Tigrigna speech recognition, addressing the gap in digital tools for Ethiopian languages. Collected and analyzed audio data, trained the model, and built a Telegram bot for real-time transcription. The project demonstrated the potential to improve accessibility for the blind, elderly, and government institutions.

**Food Delivery Platform** – MERN Stack
Built a web-based platform for browsing restaurants, placing orders, and tracking

deliveries. Developed with React.js (frontend), Node.js + Express (backend), and MongoDB (database).

**Rental House Platform** – MERN Stack
Developed a property listing platform allowing users to browse, post, and manage rental properties. Built with a React frontend and Express/MongoDB backend.

**Hotel Booking System – MERN Stack**
Built a web application that enables users to search, book, and manage hotel reservations online. Implemented features such as room availability tracking, booking history, and secure authentication. Developed with React for the frontend and Node.js, Express, and MongoDB for the backend.

**Water Package Management System – MERN Stack**
Developed a platform for a water company to showcase available service packages, pricing, and company details. Designed a responsive interface with React and Tailwind CSS, and built the backend with Node.js, Express, and MongoDB to manage package and service information efficiently.

## EXPERIENCE

**Backend Developer Intern** – Sheqlee (Freelance Marketplace)
- Collaborated on a freelance platform similar to Upwork
- Built backend logic for user authentication, project posting, and matching systems using Node.js and Express
- Developed RESTful APIs and managed MongoDB database operations
- Gained hands-on experience in team-based software development and version control

## LANGUAGES

- Tigrigna: Native
- Amharic: Native
- English: Full professional proficiency