

Natnael Messay

Web Developer

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Profile

A performance-driven **Full Stack Developer** with strong expertise in **MERN stack** and **PostgreSQL**, focused on building scalable and efficient web applications. Proficient in **Data Structures and Algorithms**, enabling optimized and high-performing code solutions. Detail-oriented and committed to clean, maintainable, and well-documented code practices. Experienced in creating responsive UIs with **React/Next.js** and robust backends using **Node.js** and **Express**. Collaborative team player with excellent problem-solving and communication skills. Adaptable to emerging technologies and passionate about continuous learning and skill enhancement. Dedicated to delivering user-focused, reliable, and high-quality software solutions.

Languages

Amharic 

English 

Education

Bachelor of Science in Computer Engineering

Addis Ababa Universty

Jan 2021 – present

Professional Experience

Full Stack Developer

Woldia Highschool > Woldia, Ethiopia

- **Developed** a responsive and user-friendly **attendance management web application**, ensuring a smooth and consistent user experience across devices.
- **Built** dynamic interfaces using **HTML, CSS, and JavaScript frameworks (Next.js)** for efficient and interactive content rendering.
- **Implemented** robust **image upload and management** for user registration, with full **CRUD functionality** and **centralized error handling** for reliability and maintainability.

Full Stack Developer

4K Labs > 4Kilo, Ethiopia

- Upgraded the existing **static 4K Lab website** into a **dynamic MERN stack application (MongoDB, Express.js, React, Node.js)** to enable real-time content updates and improve maintainability.
- **Optimized performance** by minimizing redundant **network requests** through intelligent **API design, component-level caching, and lazy loading** of resources.
- Implemented **server-side caching (Redis / in-memory)** and **client-side caching** with React Query and browser storage to enhance data retrieval speed.
- Utilized **code-splitting** and **asset optimization** to reduce initial load time by 40% (approx.) and improve Lighthouse performance scores.
- Designed RESTful APIs for dynamic data handling, replacing static HTML files and reducing backend overhead.

Skills

Front-End

Html ,CSS ,Tailwind CSS ,Javascript ,React.js ,Next.js ,Vue

Back-End

Node.js ,express.js ,Go ,Flask

Database

MYSQL ,MongoDB ,PostgreSQL

Deployment

Vercel ,Render ,Heroku ,Netlify

Version Control

Git ,Github