

Muluken Zewdu

Software Engineer | Full Stack Developer

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Professional Summary

Full Stack Developer with expertise in the MERN stack, specializing in scalable web solutions, real-time applications, and API integration. Proven experience in edtech and aerospace systems, with a focus on performance, UI/UX, and 3D visualization. .

Education

Debre Tabor University, BSC in Computer Science Oct 2021 – Feb 2025

- GPA: 3.56/4.0

Experience

Software Engineer Oct 2022 – Feb 2025
Gafat Aerospace Engineering Development Center – Debre Tabor

- Designed and optimized backend systems and databases to support aerospace research data and administrative workflows.
- Developed and integrated APIs for project management and real-time data handling across internal systems.
- Produced high-fidelity 3D models, renderings, and simulations for Solid Motor Rocket components, enhancing design validation and presentations.

Software Engineer Intern June 2024 – Sep 2024
Debre Markos University – Debre Markos

- Developed a full-stack dormitory management system using React and Node.js to automate room assignments and maintenance requests.
- Collaborated with university staff to gather requirements and improve administrative efficiency through a tailored software solution.

Projects

Notecraft | Note-Taking App <https://github.com/Tovas7/NoteCraft>

- Built a performant note-taking web app with Markdown support and offline capabilities using Next.js
- Technologies Used: Next.js, TypeScript

TripPlanner | AI-Powered Travel Itinerary Generator <https://github.com/Tovas7/TripPlanner>

- Designed TripPlanner, an AI-powered travel itinerary generator that creates personalized trip plans with smart scheduling, interactive maps, and real-time adjustments.
- Tools Used: Next JS, Typescript, Tailwind CSS

Debre Tabor University E-Learning 2024

- Built a MERN stack e-learning platform with course management, quizzes, and real-time notifications for Debre Tabor University

Technologies

Languages: JavaScript, TypeScript, Python, PHP, HTML, CSS, Bash

Technologies/Frameworks: MERN, Redux, REST API, Git, PostgreSQL, MySQL, Firebase, Tailwind CSS