NAHOM TESFAYE

Full Stack Web Engineer

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PROFESSIONAL SUMMARY

innovative and results-driven Full Stack Web Engineer with a proven track record of designing and implementing scalable, high-performance applications. Since 2019, I have specialized in building robust digital solutions, leading cross-functional teams, and optimizing system architectures. Adept at translating complex technical challenges into user-friendly experiences, I thrive in dynamic environments that demand creativity and precision.

PROFESSIONAL EXPERIENCE

Full Stack Developer & Tech Lead 21/11/2023 – Present

Muyalogy

- Developed a cutting-edge E-learning System using Next.js for both front-end and back-end.
- Integrated Supabase for PostgreSQL database management, optimizing data handling.
- Designed a visually compelling, responsive UI using Mantine and Tailwind CSS.
- Implemented Redux for seamless state management across the application.
- Developed a secure payment system for course subscriptions and transactions.
- Managed Telegram bot integration, enhancing classroom engagement.
- Led a team of developers, ensuring best coding practices and scalable architecture.
- Conducted extensive testing and debugging to maintain system stability and performance.
- Actively improved features and functionalities based on user feedback.

Full Stack Developer 2024 – 2025

Perago Information Systems

- Project: Enterprise Procurement Management System
- Developed and maintained an enterprise-grade Procurement Management System covering purchase requests, approvals, vendors, and inventory workflows.
- Built high-performance APIs using Hono with TypeScript, optimized for speed and scalability.
- Developed modern, scalable front-end interfaces using Next.js and React for internal enterprise users.
- Designed and managed PostgreSQL databases with optimized queries for large procurement datasets.
- Implemented role-based access control, approval hierarchies, and audit logs for compliance and transparency.
- Integrated secure authentication and authorization mechanisms across the system.
- Translated complex procurement business processes into efficient technical workflows.
- Automated manual procurement and approval processes, significantly improving operational efficiency.
- Focused on performance optimization, security, and system reliability.
- Collaborated closely with stakeholders and cross-functional teams to deliver production-ready features.

Technical Lead – Jiret LMS

Jiret

- Spearheaded the development of Jiret LMS, a low-code LMS leveraging Next.js, Supabase, PostgreSQL, and Drizzle ORM.
- Engineered a modular system for easy course creation and user interactions.
- Optimized database queries and system performance for seamless scalability.

- Integrated drag-and-drop content management for a dynamic learning experience.
- Managed and mentored a development team, ensuring smooth project execution.
- Led sprint planning, code reviews, and deployment strategies for optimal performance.

Full Stack Developer 01/12/2022

Jiret

- Project: Human Capital Management System (HCM)
- Developed a multi-tenant Human Capital Management (HCM) system using Next.js and Hono for scalable, high-performance APIs.
- Designed a tenant-aware architecture using PostgreSQL and Drizzle ORM, ensuring strict data isolation and security per organization.
- Built dynamic and responsive user interfaces using Tailwind CSS.
- Implemented AI-powered CV analysis and candidate matching features.
- Developed secure authentication and role-based access control across multiple organizations (tenants).
- Architected a multi-tenant system enabling multiple companies to operate independently within a single platform while maintaining complete data isolation.
- Solved hiring inefficiencies by building an AI-assisted CV screening system that analyzes, ranks, and matches candidates to job requirements.
- Reduced HR workload by automating CV parsing, filtering, and shortlisting processes.
- Designed a centralized employee management system to handle recruitment, onboarding, and employee lifecycle tracking per tenant.
- Improved candidate-job matching accuracy using structured data extraction and intelligent scoring.
- Digitized HR operations for companies, replacing fragmented and manual processes with a unified system.
- Ensured scalability and performance by optimizing database queries and implementing tenant-based indexing strategies.

Full Stack Developer 14/07/2025

Greenbag Ethiopia

- Developed scalable web applications using Next.js for both front-end and back-end services.
- Designed and implemented efficient database systems using PostgreSQL (Supabase), improving data reliability and performance.
- Built responsive and user-friendly interfaces using Tailwind CSS, ensuring accessibility across devices.
- Integrated real-time features and APIs to streamline operations and communication.
- Implemented secure authentication and role-based access control for different user types.
- Engineered solutions addressing Ethiopia's logistics and transportation challenges, including inefficient delivery tracking and coordination.
- Developed systems that optimize order management and delivery workflows, reducing delays and improving operational efficiency.
- Built tools to digitize manual processes, helping businesses transition from paper-based to automated systems.
- Improved system performance and reduced downtime through debugging, optimization, and proactive monitoring.
- Collaborated with cross-functional teams to align technical solutions with real-world business needs.
- Contributed to building reliable platforms that support local businesses in overcoming infrastructure and communication gaps.

Full Stack Developer

Loop State

- Project: Crowd-Funded Application
- Architecting a crowd-funded platform using Next.js and Supabase.
- Implemented secure authentication and transaction workflows, ensuring data security.
- Designed user profiles, project backer interactions, and funding mechanisms.
- Optimized performance to handle high traffic and seamless funding tracking.

Full Stack Developer 01/02/2023 –
Bazra Motors 17/11/2023
- Developed an E-Wallet System facilitating real-time financial transactions.
- Built a responsive React.js + Material-UI front end for an intuitive experience.
- Implemented Spring Boot for a robust backend, handling secure transactions.
- Designed and optimized MySQL database structures.
- Established role-based access control for merchants and agents.
- Built an admin panel to manage transactions with real-time monitoring.
- Conducted extensive testing to ensure high system reliability.

Developer 12/04/2021 –
Dan Energy 20/12/2021
- Developed a WordPress-based CMS for an AutoParts E-commerce platform.
- Implemented an Automatic License Plate Recognition System using OCR technology.
- Designed a seamless online shopping experience with secure transactions.
- Improved the accuracy and efficiency of the license plate recognition system.

SKILLS

Front-End
React.js, Next.js, TypeScript, HTML5, CSS3, Bootstrap, Mantine.dev, Tailwind CSS, C++, R, Tanstack

Databases
PostgreSQL, MongoDB, MySQL, Drizzle ORM, Supabase

AI & Machine Learning
LLM Integration, Prompt Engineering, AI-powered CV Analysis, Semantic Search & Matching, OpenRouter (DeepSeek, Gemini), API-based AI Systems

Back-End
Node.js, Express.js, Spring Boot, Hono

DevOps & Tools
Git, GitHub, GitLab, CI/CD, Docker

ONLINE COURSES

online web basics courses 2025 – 2026
Muyalogy Addis ababa
Helping beginners build a strong foundation in web development.

EDUCATION & CERTIFICATIONS

Bachelor of Science in Computer Science
Admas University
Graduated with Very Great Distinction

Practitioner Data Science
United Nations

Certifications
Coursera
- React.js
- Google IT Support
- Responsive Web Design
- Big Data

LEADERSHIP & CONTRIBUTIONS

Technical Leadership
Successfully led multiple teams in building scalable applications.

Mentorship
Provided guidance to junior developers, fostering innovation and growth.

Continuous Improvement
Passionate about implementing best practices for development efficiency.

PERSONAL PROJECTS

Green gym 03/2026 – 04/2026

gym management system

Manage members, subscriptions, payments, and Telegram communication from one powerful platform. Automate operations, track memberships, collect payments, and provide AI-powered support that answers staff questions in Birr while keeping every member conversation private and secure.

Global Conflict 04/2026 – 06/2026

Global Conflict is an AI-powered real-time intelligence platform that visualizes conflicts, geopolitical tensions, and major global events on an interactive 3D globe. Monitor live developments, track conflict zones, analyze trends, and stay informed through continuously updated data from global sources.

Smart birr 04/2026 – 05/2026

Financial tracking

Smart Birr helps businesses manage members, subscriptions, payments, and Telegram communication from one platform. Automate workflows, track revenue, and get AI-powered assistance designed for Ethiopian businesses.

Netflix Clone

- Developed a Netflix clone for entertainment purposes, replicating its intuitive UI and functionality.
- Built with Next.js for high performance and seamless navigation.
- Integrated a dynamic content display, user authentication, and streaming simulation.

COVID-19 Tracker Web App 2022

- Built a real-time COVID-19 tracker using React.js.
- Integrated Google Maps API to visualize pandemic data geographically.
- Fetched real-time statistics from the World Health Organization API.
- Key Features: Real-time tracking of COVID-19 cases, Interactive map visualization displaying regional statistics, User-friendly navigation and data accessibility.