

# MICHAEL ZERIHUN TESFAYE

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Nefas Silk Lafto., Addis Ababa, Ethiopia

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## FULL STACK DEVELOPMENT

Highly motivated Full-Stack Developer with 3+ years of commercial experience in designing, developing, and optimizing scalable web applications. Proven ability to architect and implement end-to-end solutions, crafting responsive, user-centric interfaces with React, Next.js, and TypeScript, and building robust backend systems with Node.js, NestJS, Firebase, PostgreSQL, and MongoDB. Expertise includes database design, seamless API integration, developing efficient REST APIs, optimizing data fetching with TanStack React Query, and building data-driven admin dashboards. Eager to contribute to innovative projects and drive impactful results across the full stack.

## SKILLS

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**Front-End:** Next.js, React, TypeScript, Tailwind CSS, Material UI, Shadcn, HTML5, CSS3, JavaScript (ES6+), Mantine UI

**Back-End:** Node.js, NestJS, Firebase (Auth, Firestore, Functions, Admin SDK), MongoDB, PostgreSQL, Google Cloud Services

**State Management:** Redux, TanStack React Query, Zustand, React Context API

**Tools:** Git, Postman, Figma, Docker, Webpack, npm, Yarn, Vercel, Firebase Hosting, Google Analytics, Hotjar, Facebook Pixel, Amplitude

**Language:** Javascript, Python, C++, Java

**Others:** AI Automation, API integration, Data Visualization, Responsive Design, Performance Optimization (Core Web Vitals, Lighthouse), UI/UX Principles, Code Review, Mentoring, Agile/Scrum, Problem Solving, Troubleshooting, Technical Documentation.

## PROFESSIONAL EXPERIENCE

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**Full-Stack Developer | Kinetic Business Intelligence. | Addis Ababa, Ethiopia**

**March 2022 – Jun 2025**

- Led the full-stack development of **Canvaza**, a collaborative visual communication SaaS platform (canvaza.com) using React, Next.js, TypeScript, and NestJS/Firebase for backend services. Spearheaded the development of Canvaza 2.0, significantly improving the user interface (UI) by meticulously maintaining and updating existing code for a more modern and intuitive user experience. Engineered and optimized interactive features, including real-time collaboration, screen recording, and video annotations, streamlining team workflows and boosting communication efficiency by over 15%. Architected and implemented robust backend functionalities for file storage and workspace creation, resolving complex data management challenges and ensuring a scalable system capable of handling diverse user content.
- Developed a **critical dashboard for Africa CDC**, enabling country-level public health assessments and data-driven decision-making through interactive map-based data visualization and complex nested assessment forms, providing vital, real-time insights into national health metrics and improving data collection accuracy by 30%.
- Led the development of **EthioChicken Dashboard**, a modern enterprise solution managing poultry farming operations across Ethiopia. Built with Next.js, Redux, and Mantine UI for the frontend and Firebase/NestJS microservices leveraging Google Cloud Services for the backend, this intuitive dashboard handles farm tracking, order processing, and sales analytics. My optimizations on this dashboard cut loading times by over 14%, serving multiple user roles from farm managers to sales agents, improving operational oversight and data accessibility for critical business decisions. ([dev demo link](#))

- Solely developed the **WASS Insurance Reminder System**, a comprehensive full-stack platform. Leveraging PostgreSQL for robust data management and REST APIs for seamless endpoint connectivity, this dashboard featured analytics, CRUD operations for assets, policyholders, and users, and dynamic data tables with configurable settings. Through efficient state management, I improved application performance by 13%. This initiative resolved complexities in auto insurance management, simplifying processes for all stakeholders, reducing processing time by 20%, and enhancing customer satisfaction by managing the entire project lifecycle from start to finish. ([dev demo link](#))
- Mentored junior developers and implemented best practices for code quality, fostering team growth and maintaining high development standards across multiple projects.

## Full-Stack Developer | EagleLion Systems Technologies Co. | Addis Ababa, Ethiopia

October 2024 – December 2024

- Spearheaded the development and optimization of critical e-commerce solutions for local brands, significantly enhancing user experience and conversion funnels by improving navigation and checkout flows, leading to a 5% increase in conversion rate.
- Engineered core frontend features for the **Zemen Shop E-commerce Platform** (React, Next.js, TypeScript, Tailwind CSS), delivering intuitive interfaces that drove user engagement and increased average session duration by 11% through improved content presentation. ([dev demo link](#))
- Engineered the **Zemen Shop Admin Dashboard**, integrating detailed analytics and data visualization features via API integrations (TanStack React Query) to empower shop owners with efficient product, order, and customer management, alleviating manual reporting burdens and saving over 10 hours/week in administrative tasks. ([dev demo link](#))
- Provided technical mentorship and conducted code reviews for junior developers, contributing to team skill advancement and code integrity.

## EDUCATION & CERTIFICATIONS

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### Bachelor of Science Computer Science

HiLCoE School of Computer Science and Technology

## LANGUAGES

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### English

Fluent

### Amharic

Native

## REFERENCES

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### Fiyori Alem - [fiyori039@gmail.com](mailto:fiyori039@gmail.com)

Operations Manager at Kinetic Business Intelligence.

### Getabefkadu Temesgen- [getabefkadu@gmail.com](mailto:getabefkadu@gmail.com)

Senior Full Stack Developer at Kinetic Business Intelligence.