

KIDUS MESFIN

Software Engineer

✉ kidusmesfinteferi@gmail.com ☎ +251960156400 📍 Ayat Addis Ababa, Ethiopia 🔗 kidusmesfinportfolio.vercel.app

SUMMARY

Driven and adaptable **Software Engineer** with 3+ years of experience in **full-stack development**, **system design**, and **algorithmic problem solving**. Skilled in building scalable web applications using **React**, **Next.js**, **Node.js**, and **MongoDB**. Currently pursuing a **BSc in Computer Science at HiCoE** and trained with **A2SV** on advanced data structures and algorithms. Passionate about leveraging technology to solve impactful problems across Africa.

EDUCATION

Bachelor in Computer Science, *HiCoE School of Computer Science & Technology* 2022–Present

- HiCoE is a leading Ethiopian institution focused on innovation and practical computer science education, with close collaboration with tech industry experts.
- **Relevant Coursework:** Data Structures & Algorithms, System Design, Object-Oriented Programming, Software Engineering, Web Development.

Advanced Data structure and Algorithm, *A2SV* 04/2025 – 01/2026

Selected participant in a competitive 6-month mentorship program focused on advanced algorithms, problem-solving, and global tech exposure.

EXPERIENCE

Senior Software Developer, *Andro Solutions* 03/2025 – Present

- Led a cross-functional team to develop scalable web platforms for clients using **Next.js**, **Node.js**, and **MongoDB**.
- Optimized backend performance and implemented CI/CD pipelines, reducing deployment times by 40%.
- Mentored junior developers on best practices in software architecture and version control.

Junior Software Developer, *The Idea Vault* 2022 – 01/2024

- Designed and maintained company websites and visual assets, improving user engagement by 25%.
- Managed brand consistency and led cross-border social media campaigns.

Full Stack Developer, *Temaribet* 12/2025

Education Technology Platform

- Developed and maintained internal **moderator dashboards** and **backend infrastructure** supporting a large-scale education platform for Ethiopian high school students preparing for national exit examinations.
- Built scalable backend services using **Python (FastAPI)** with **Redis** for caching and performance optimization, and **RabbitMQ** for asynchronous task processing and event-driven workflows.
- Designed and implemented APIs and background workers to support content moderation, analytics, and system reliability.
- Developed cross-platform mobile features using **React Native** and modern web applications with **Next.js**, leveraging the **TypeScript** ecosystem for type safety and maintainability.
- Collaborated on building a well-rounded digital learning tool focused on accessibility, performance, and real-world exam readiness for students.
- Worked across the full stack, contributing to architecture decisions, feature development, and iterative improvements in a production environment.

Head of Education, *A2SV* 01/2026

- Led the design and delivery of **Data Structures and Algorithms (DSA)** training programs for software engineering students.
- Conducted structured lectures, problem-solving sessions, and technical reviews focused on algorithmic thinking and interview readiness.
- Mentored students through competitive programming and real-world problem decomposition, improving consistency and performance.
- Contributed to curriculum planning, learning standards, and academic direction across cohorts.

Organisations

A2SV (Africa to Silicon Valley) *Member* 05/2025 – Present

- Engaged in high-level algorithmic training and collaborative software projects with top African engineers.
- Gained mentorship from global tech professionals and contributed to real-world solutions.

SKILLS

Languages Python, JavaScript, TypeScript, C++, PHP, Java, C#, Dart, Go	Frameworks & Libraries React, Next.js, Node.js, Express.js, Flask, Flutter, React Native, Fast Api, Gin
Databases MongoDB, SQL, Firebase	Tools Git, Figma, Postman

Projects

Homely , <i>Rental Platform</i> • Designed a platform connecting renters and homeowners with live search and booking systems. • Technologies: React, Node.js, MongoDB, Firebase. • Integrated real-time notifications and payment gateways.	01/2024 – Present
Streamsynx , <i>Movie Streaming Site</i> • Developed a modern movie streaming platform that fetches real-time data from The Movie Database (TMDb) API. • Implemented dynamic movie listings, search and filtering, and responsive UI for seamless viewing. • Integrated authentication, favorites, and watchlist features using Next.js , Firebase , and Tailwind CSS . • Technologies: React, Next.js, Firebase, TMDb API, Tailwind CSS.	01/2023 – 03/2023
Prepx , <i>Educational Platform</i> Education Technology Platform for National Exit Exams A full-stack education platform designed to help Ethiopian high school students prepare for national exit examinations. The system includes mobile and web applications built with React Native and Next.js, backed by a scalable FastAPI backend using Redis for performance optimization and message queues for background processing. The platform features content moderation tools, structured learning materials, and exam-focused workflows to support accessible and reliable student learning at scale.	12/2025

LANGUAGE

- AMHARIC
- ENGLISH