

KIDUS MESFIN

Software Engineer

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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 HilCoE** 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, HilCoE School of Computer Science & Technology	2022–Present
• HilCoE 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 .	Addis Ababa, Ethiopia
• 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%.	Kenya-Ethiopia
• Managed brand consistency and led cross-border social media campaigns.	
Full Stack Developer, Temaribet	12/2025
<i>Education Technology Platform</i>	Addis Ababa, Ethiopia
• 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.	Addis Ababa
• 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)	05/2025 – Present
• Engaged in high-level algorithmic training and collaborative software projects with top African engineers.	Addis Ababa, Ethiopia

• Gained mentorship from global tech professionals and contributed to real-world solutions.

SKILLS

Languages

Python, JavaScript, TypeScript, C++, PHP, Java, C#, Dart, Go

Databases

MongoDB, SQL, Firebase

Frameworks & Libraries

React, Next.js, Node.js, Express.js, Flask, Flutter, React Native, Fast API, Gin

Tools

Git, Figma, Postman

Projects

Homely, Rental Platform

01/2024 – Present

- 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.

Streamsynx, Movie Streaming Site

01/2023 – 03/2023

- 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.

Prepx, Educational Platform

12/2025

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.

LANGUAGE

- AMHARIC
- ENGLISH