

ABDIAZIZ HAREDH AFEY

Full-Stack Software Engineer | Lead Developer

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SUMMARY

Full-stack engineer based in Garissa, Kenya, currently leading product development at Asal Core Technologies and running the technology and training programs at ASAL iLab. Comfortable across the stack in JavaScript/TypeScript, Python, React, Nextjs, and Fastapi with hands-on experience taking software from design and unit testing through debugging, CI/CD, and production deployment in Agile teams.

SKILLS

Languages & Frameworks: JavaScript, TypeScript, Python, React, Next.js, Flask, FastAPI, HTML, CSS, TailwindCSS

Systems & Practice: RESTful APIs, component-level software design, OOP, distributed systems, SQL (MySQL, PostgreSQL, SQLite), Agile/Scrum, CI/CD pipelines, unit testing, debugging & troubleshooting, DevOps, L3 support, Git/GitHub, AWS

Other: Technical mentorship & team leadership, stakeholder engagement, English & Swahili (fluent)

EXPERIENCE

Lead Developer — Asal Core Technologies

Aug 2026 – Present

- Leading full-stack development of a multi-tenant school management platform for Kenyan schools, covering CBE and 8-4-4 curriculum tracking, M-Pesa fee collection, and parent/student portals.
- Lead design, development, and deployment of the ASAL iLab website and its academic and LMS portal, and own its day-to-day uptime and updates for an active student and admin user base.
- Built and maintain Hisab, an accounting and business-management platform for SMEs; fixed a rounding defect by moving all monetary fields to fixed-precision types, restoring exact totals across the app.
- Work within a two-developer Agile team covering sprint planning, CI/CD, code review, and production debugging.

Director of Technology & Innovation — ASAL iLab

Jul 2026 – Present

- Lead technology strategy and design hands-on software engineering curricula, teaching HTML, CSS, JavaScript, Python, SQL, Git/GitHub, and the basics of tech entrepreneurship to aspiring developers across Northern Kenya.
- Guide learners from first principles to shipped projects, growing a steady pipeline of job-ready graduates and a handful of student-led startup ideas.

Technical Mentor, Software Engineering — Garissa University

Mar 2025 – Present

- Mentor students in full-stack development (HTML, CSS, JavaScript, React, Python, Flask, SQL) and supervise projects from concept through deployment.
- Give one-on-one debugging and code-review support, and run workshops on interview and technical-assessment preparation.

Software Engineer — Nasx Technologies (Part-time)

Aug 2025 – Mar 2026

- Helped establish and grow a technology company delivering custom software, web design, and cloud/networking solutions; led a multidisciplinary team across the full product lifecycle.

LATEST PROJECTS

- **Hisab** — hisab.asalcore.com/: Accounting and business-management platform, built at Asal Core Technologies, helping SMEs replace paper-based processes with a digital workflow.
- **ASAL iLab Platform** — asalilab.org/: Student applications, role-based admin dashboard, and finance/academic portals for a regional tech training organisation.
- **Kitisure** — kitisure.live/: Bus booking platform connecting passengers with operators; improved booking efficiency by 50%.
- **Garissa University Recruitment Portal** — jobs.gau.ac.ke/: Automated recruitment platform that simplified job posting and HR operations, cutting processing time by 60%.

EDUCATION

Bachelor of Science, Information Science (Information Technology) — Garissa University, Kenya

Sep 2023 – Present (Expected 2026).

AWARDS & HONORS

- Winner, First Innovation Week Hackathon, Garissa University
- Led a team of 5 to a notable, standout finish at the Origin Fest Hackathon 2025, competing against entrants from universities across Africa
- Presented Kitisure and represented Garissa University at the 7th ASSEK Annual Conference & Innovation Awards 2025, Nairobi