

Abdrehim Misbah Abdella

Software Engineer

✉ abdrehimmisbah@gmail.com 📞 +251 972122058 📍 Addis Ababa 🔗 Portfolio 🌐 LinkedIn 🏠 GitHub

Professional Experience

Software Engineer, Intern, Eskalate LLC, *Africa to silicon valley* 🌐

06/2025 – 08/2025

Addis Ababa, Ethiopia

- Architected a full-stack e-commerce application in Flutter using Clean Architecture and BLoC pattern, delivering complete product lifecycle management — create, read, update, and delete.
- Engineered a real-time bidirectional chat system using Socket.IO 🌐 as a standalone feature decoupled from the e-commerce module, enabling live peer-to-peer messaging with persistent conversation state
- Integrated 10+ REST API endpoints with a Node.js/Express backend, reducing average screen load time by ~30% in testing through response caching

Projects

A+ Tutorial Class App — Secure E-Learning Platform (Client Project) 🌐

11/2025 – 02/2026

- Sole Flutter engineer collaborating with a backend engineer to deliver a client subscription-based e-learning platform built with Clean Architecture and BLoC, featuring structured courses, chapters, lessons, and encrypted media resources (video, PDF, images) — served 2,000+ students via direct web distribution and now live on the Google Play Store
- Engineered a custom Trusted Time Engine using Flutter platform channels and native Android APIs, anchoring subscription validity to kernel uptime instead of the device clock — rendering time manipulation ineffective, with a 7-day offline heartbeat and boot session fingerprinting to prevent unlimited offline access
- Secured downloaded content with AES encryption in sandboxed app-private storage and enforced single-device binding — each account locks to one device, with instant access revocation on subscription expiry

Real English — Natural Immersion App (Personal Project) 🌐

10/2025 – 01/2026

- Built a full-stack language acquisition application using Flutter (Clean Architecture) and Node.js/Express, designed to emulate natural language acquisition through stories and contextual immersion, replacing traditional grammar drills with interactive, choice-driven narrative experiences.
- Engineered an infinite-scroll immersion feed using `preload_page_view` and the YouTube API to stream conversational English shorts, implementing navigation-safe UI overlays and asset caching to ensure seamless, uninterrupted video playback.
- Developed an automated media generation pipeline utilizing Gemini for text and voice synthesis and Pollinations AI for contextual image generation, producing immersion assets stored on Ethio Telecom Cloud Storage (OBS) to optimize performance and reduce application loading times.

Education

Software engineering, *Addis Ababa Science and Technology University* 🌐

Expected graduation:2027

Addis Ababa

- CGPA: 3.93/4.00 – Consistently on the President's List for academic excellence.
- **Relevant Coursework:**Data Structures & Algorithms, System Design & Analysis, Internet Programming, Mobile Computing, Operating Systems, Software Quality Assurance & Testing, Object-Oriented Programming (Java), Programming (C++)

Coding Academy, *Africa to Silicon Valley (A2SV) – Backed by Google* 🌐

01/2025 – 09/2025

Addis Ababa, Ethiopia

- Completed an intensive software engineering program at Africa's leading tech academy (A2SV), joining a selective talent pool with 100+ offers to top tech companies including Google, Amazon, and Bloomberg.
- Mastered advanced data structures, algorithms, and system design by solving 800+ problems on LeetCode & Codeforces and collaborating on real-world projects at Eskalate.

Skills

Programming Languages

JavaScript, TypeScript, Dart, Python, C++, Java, SQL

Frameworks & Libraries

React, Next.js, Express.js, Flutter, TailwindCSS

Tools & Platforms

Git, GitHub, GitLab

Achievements

- Received multiple Presidential Awards from the University President for exceptional academic performance.
- Mentored students in the **GDG On Campus AASTU** 2026 Flutter program, delivering lectures and guiding learners in building mobile applications and mastering Flutter fundamentals.
- Recognized for Leadership and Community Service as **Student Parliament President**, earning 15+ certificates from schools and clubs for mentoring, teaching, and organizational contributions.