Abel Erduno Hakenso Software Engineer

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Education

Bachelor of Science in Computer Science, *Addis Ababa University* · 01/2022 – 06/2026 · Addis Ababa
- Ethiopia's leading and oldest national university, consistently ranked among Africa's top institutions for science and technology.
- **Relevant Course work** Data Structures and Algorithms, Object-Oriented Programming, Database Systems, Computer Networks, Operating Systems, Artificial Intelligence, Web Application Development, Computer Security, Real-Time and Embedded Systems

Data Structure and Algorithm, and Software Development, *Africa to Silicon Valley* · 01/2025 – 01/2026 · Addis Ababa
- Nonprofit program training African students in software engineering and algorithms; mentored 3,000+ and placed 50+ in top tech firms like Google and Meta.
- Solved 400+ LeetCode problems and trained for a year in DSA, system design, and collaborative software development.

Backend Software Engineering Program · 08/2024 – 01/2025 · Addis Ababa
- Achieved **84.7% overall grade**, mastering Django Models, REST Framework, and API Security.

Professional Experience

Mobile Developer Intern, *Africa to Silicon Valley* · 06/2025 – 09/2025 · Addis Ababa
- Optimized cross-platform mobile applications using performance profiling tools, **reducing app startup time by 30%** and **average memory usage by 15%** on Android devices.
- Integrated **RESTful APIs** with **JWT authentication**, boosting session reliability by **35%** and enabling secure real-time job updates.
- Improved app performance and UI responsiveness, **reducing load times by 20%** and **crash rate by 10%** using Bloc-based state management.
- Collaborated in agile sprints with 6+ developers using **Git, Jira, and code reviews**, increasing sprint completion rate by **15%**.
- Designed reusable **Flutter UI components** improving development efficiency by **20%** across multiple projects.

Projects

JobGen, *AI-Powered Remote Job Finder & CV Optimizer*
- Built a **Flutter mobile app** using **clean architecture** and **BLoC**, improving maintainability and **reducing bugs by 40%** during testing.
- Delivered core modules (auth, jobs, profile, chatbot) for **50+ pilot users**, improving usability and stability.
- Optimized API calls and caching, **reducing load time by 25%** and enhancing offline access for **80%** of pilot users.
- Partnered with backend and AI teams to improve matching logic, achieving a **30% rise in job-match accuracy**.

Smart Personal Finance Platform, *Flutter • Kotlin • React • Supabase (Postgres + Edge Functions)*
- Built an **ETB-first personal finance dashboard** integrating bank, mobile-money, and cash transactions into a unified analytics view.
- Implemented **AI-based expense categorization** with **80% accuracy**, JWT-authenticated APIs, and real-time dashboards for analytics.
- Engineered a **mobile SMS ingestion module** in Kotlin that processes 100+ transactions/day for early test users.

Technical Skills

Languages
- Python, JavaScript, TypeScript, Dart, C++, Java, PHP, Assembly

Databases/Tools
- Supabase, PostgreSQL, MongoDB, Firebase, Git, Jira, Figma

Frameworks/Libraries
- Flutter, React, Next.js, Node.js, Express.js, Django, Tailwind CSS, Redux Toolkit

Awards

Student Mentor · 06/2024
- Mentored high school students in **software development** and **data structures & algorithms (DSA)**, guiding them through hands-on projects and coding fundamentals.

Ethiopian National University Entrance Examination · 09/2022
- Ranked among the **top 3% of students nationwide** who passed the **Entrance Examination**.

Africa to Silicon Valley (A2SV) Scholar · 01/2025
- Selected among the **top 5% of applicants** for a highly competitive software engineering program.