

Joshua Taye

<https://www.linkedin.com/in/joshua-alemayehu> | github.com/JoshuaTaye

EDUCATION

Addis Ababa University

Bachelor of Science in Software Engineering

Addis Ababa, Ethiopia

May. 2022 – Jun. 2026

Lideta Catholic Cathedral School

Highschool diploma

Addis Ababa, Ethiopia

Sep. 2017 – Nov. 2021

EXPERIENCE

Back End Developer

HABTech Solutions

Feb. 2025 – Present

Addis Ababa, Ethiopia

- Worked on Blood Safety Information System (**BSIS/AEBIS**) modernization in partnership with the **Ethiopian Blood and Tissue Bank Service** (EBTBS), replacing a legacy system with a scalable, **multi-tenant** Spring Boot platform for nationwide blood and tissue bank operations.
- Built core **donor lifecycle** backends: donation appointment management with eligibility screening and auto-completion after donation; a versioned, multilingual **eligibility-questionnaire** system with hierarchical display rules and automatic eligibility calculation; and **donor assessment** flows that auto-defer donors (e.g. low weight) and trigger deferral/counselling notifications.
- Designed a **message-template** and **notification** platform supporting event-triggered and scheduled bulk dispatch across email/SMS/in-app channels, with RabbitMQ-backed rate limiting, grouping/jitter load distribution, Amharic SMS encoding, preference-aware delivery, nearby-donor geo targeting, and notification analytics (dim/fact) with deduplication.
- Implemented end-to-end **plasma** workflows including auto-create/categorize plasma units on component processing, box and pallet management, consignment search, pack-label verification, and configurable **ZPL** plasma box label generation and printing.
- Delivered **tissue recipient** management (candidates, waiting lists, allocations, offer status/outcomes) and hospital/**usage-site** order and transfusion flows, including receive/in-transit status tracking, transfusion request types with blood-group support, return-form cause of return, and paginated order/feedback APIs.
- Modelled analytics as a star schema of **fact and dimension** tables (appointments, notifications, usage-site orders, deferrals, settings, transplant matching) and built legacy-to-tenant **migration** scripts to promote staged data into operational multi-tenant schemas.
- Hardened auth and data integrity with OTP SMS password reset for mobile, case-insensitive login, duplicate-donor merge fixes, ISBT-128/FIN labelling support, counselling safe-space rules for mobile clinics, and **cursor-based pagination** on high-payload list endpoints.

Full Stack Developer

Go Gerami | gogerami.com

Nov. 2025 – Present

Remote

- Led full-stack development of **Go Gerami**, a multi-tenant gift and experience marketplace for customers, vendors, admins, and delivery partners, working across the **Spring Boot 3 / Java 21** backend, **React + TypeScript** frontend, and **PostgreSQL** database schema.
- Architected and implemented the backend with a layered design (controllers, services, repositories), **JWT**-based authentication, role-based authorization, global exception handling, caching, and specification-based filtering and pagination for large product, event, and service catalogs.
- Designed and implemented a robust **multi-currency pricing** system for products and SKUs that automatically creates and validates price records in **USD** and **ETB**, fixing a zero-pricing cart bug and enforcing strong data integrity and null-safety in the pricing flow.
- Implemented a PCI-aware, two-phase payment flow integrating **Stripe** and **Chapa**, separating order creation from payment processing with idempotent order APIs, payment-initialization endpoints, and a resilient payment-completion flow prepared for webhook confirmations.
- Built and maintained the **React + Vite** single-page application with a feature-based architecture, **Zustand** and **React Query** for state management, **Tailwind CSS** and **Radix UI** for accessible components, and end-to-end flows for customers, vendors, admins, and delivery staff (cart/checkout, events, services, custom orders, dashboards, and tracking).
- Modelled and evolved a Liquibase-managed **PostgreSQL** schema (80+ tables) covering users, vendors, products/SKUs, prices, discounts, taxes, events, services, delivery, and custom orders, with environment-aware configurations (local, Neon, Render), indexing strategy, and rollback-tested migrations.

Full Stack Developer

Dec. 2025 – Mar. 20206

Bilal Community | bilalcommunity.com.au

Remote

- Led full-stack development of a **membership, payments, donations, and events platform** for a community organisation, working across a **Spring Boot + PostgreSQL** backend and a **Next.js + React + TypeScript** frontend.
- Designed and implemented a Stripe-backed **membership billing engine** with joining fees, monthly and annual plans, and nuanced grace-period and suspension rules for both new and legacy members, ensuring accurate months-behind calculations and up-to-date payment status for every login.
- Built data-heavy **admin and member dashboards** that surface payment arrears, revenue trends, aging buckets, member risk levels, and detailed payment histories, using charts, tables, and CSV export to support leadership reporting and day-to-day operations.
- Implemented a secure **auth system** combining OTP login (email/SMS via Twilio), Google OAuth2, JWT access tokens, and hardened refresh-token rotation with HttpOnly cookies, role-based routing, and method-level authorization on critical APIs.
- Delivered an end-to-end **event registration and ticketing** experience where members and guests can register and pay via Stripe, and download A6 PDF tickets with embedded QR codes that integrate with admin-side check-in workflows.

Full Stack Website Developer

Feb. 2024 – Present

Ethio College Prep

Addis Ababa, Ethiopia

- Developed a comprehensive website for Ethio college prep, overseeing the project from inception to launch.
- Utilized **Next.js** as the primary frontend framework, implemented **Tailwind CSS** for styling, and integrated **MongoDB** for data storage and management.
- Managed and maintained all aspects of the project **independently**.

Telegram Bot Developer

May 2024 – June 2024

Ethio College Prep

Addis Ababa, Ethiopia

- Built a Telegram bot with **Telegraf.js** that automates the ECP Scholarship School course registration process.

Backend Trainer

July 2024 – September 2024

Google Developer Students Club

Addis Ababa, Ethiopia (Remote)

- Led an 8-week comprehensive Backend Development course covering JavaScript fundamentals, asynchronous programming, **Node.js**, **MongoDB** and Mongoose, the **Express** framework, file uploads with Multer, and server deployment.
- Delivered hands-on coding sessions, assigned student projects, built full-scale backend applications for live demonstration, and provided ongoing guidance throughout the program.

PROJECTS

Fundly | *Spring Boot, Java 21, Next.js, React, TypeScript, PostgreSQL, Liquibase* | fund-ly.app Dec. 2025 – Present

- Built and deployed **Fundly**, an AI-assisted crowd-investment marketplace connecting emerging-market founders with global investors, with role-specific workspaces for entrepreneurs, investors, and platform admins (fund-ly.app).
- Architected a **Spring Boot** backend with JWT and Google OAuth2 auth, RBAC, Liquibase-managed **PostgreSQL**, and end-to-end flows for project listing, KYC/AML verification (OCR, biometrics, encrypted document storage), NDAs, digital investment agreements, pledges, and webhook-confirmed payments.
- Integrated async **AI diligence** (credibility scoring, summarization, risk flags, and personalized recommendations) plus milestone-based funding with task tracking, recurrence, disputes, and scheduled automation.
- Delivered a **Next.js** frontend using feature-based clean architecture, TanStack Query, Redux, Tailwind, real-time messaging over WebSocket/STOMP, in-app notifications, and admin tooling for verification queues, project moderation, and analytics.

PIMS | *Rust, Tauri, Diesel, SQLite, React, Vite*

May 2025 – Present

- Developed a desktop based **Pharmacy Inventory Management System** that enables pharmacists to place orders with suppliers, record transactions, manage inventory, and gain operational insights through comprehensive analytics.
- The system also allows pharmacy clerks to track sales and automate workflows using an integrated **Invoice management module**.
- Developed the application using **Rust + Tauri** for the backend and **React + Vite** for the front end.

- I played a major role across the project lifecycle — **leading system design** and serving as the **lead backend developer**.

Gym Management Systems | *React, Node.js, MySQL, Flutter, Rust, Hardware Integration* | Dec 2024 – Present
brightfitnessgym.com

- Developed a complete gym management system offering multiple deployment options: offline, hybrid, web-based, and mobile applications.
- Features advanced access control with **fingerprint scanning**, and seamless hardware integrations.
- The system handles membership management, class scheduling, and comprehensive reporting.
- Delivered product to **five** satisfied clients.

DevScrape | *React, Python, Scrappy, BeautifulSoup, Flask*

October 2024 – January 2025

- DevScrape is a web application that extracts selected useful data fields from websites such as Google Play and GitHub, saving users time when searching for new project ideas.
- It helps people interested in computing discover project ideas by surfacing comments and signals from the software community.
- The system handles membership management, class scheduling, and comprehensive reporting.
- The project used **BeautifulSoup** and **Scrapy** to scrape and aggregate the desired data.

TECHNICAL SKILLS

Languages: Java, Python, MySQL, PostgreSQL, JavaScript, HTML/CSS, Rust, Dart, GoLang

Frameworks: Spring, Spring-boot, Tauri, React, Node.js, Next.js, NestJs, Flutter, Material-UI

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, RustRover, WebStorm, Eclipse

Collaboration Tools: Jira, Slack, GitHub, GitLab

Libraries: Mockito, Hamcrest, JUnit, JPA/Hibernate, JDBC, Cloudinary SDK, Tailwind CSS, shadcn/ui, zod