

Bruk Berhane Asfaw

Software Engineer

Addis Ababa, Ethiopia · brukbrhane@gmail.com · +251 929 040 792
linkedin.com/in/bruk-berhane-asfaw-a1a4369a · github.com/brukberhane

SUMMARY

Backend and integration engineer; early hire at ShipShap, a B2B SaaS platform for order management, shipping, payments, and fulfillment — including carrier and in-house shipping in Kenya. Built core Django integrations from scratch across carriers and e-commerce platforms, processing **30k+ shipping labels**. Also ran sole IT for a multi-branch stone finishing company while working remote. Co-founder of a small web studio focused on deployment, backend, and React delivery. Remote-first.

EXPERIENCE

Software Engineer · ShipShap

Nov 2020 – Aug 2026 · Remote / Addis Ababa

B2B SaaS platform reducing friction for businesses selling direct to consumers.

Carrier integrations *(created ``providers_dhl``, ``providers_g4s``, ``providers_speedaf`` apps)*

- Built and owned **DHL Express** integration end-to-end: rates, multi-parcel label purchase, tracking sync, and holiday-aware retry when scheduled pickup falls on a non-business day — completing reliable label purchase for enterprise clients
- Hardened DHL tracking validation when carrier reuses shared shipment tracking numbers
- Built **G4S** and **Speedaf** (Kenya) integrations: encrypted API signing, city-based rate tables, and reliable tracking event ordering despite unreliable carrier timestamps

E-commerce platform integrations *(created ``platforms_woocommerce``, ``platforms_shopify``)*

- Built WooCommerce integration from scratch: OAuth (wc-auth), scoped API tokens, signed webhooks, order/product sync, and reliable credential delivery on store connect
- Built and maintain **ShipShap WooCommerce plugin** (PHP): OAuth connect, checkout shipping rates, pickup points, HPOS compatibility, and third-party checkout compatibility (Elementor, etc.) — primary plugin author
- Built **Shopify** integration from scratch: OAuth, order import, fulfillment and label visibility; contributed ongoing reliability improvements (line-item and discount handling, HTTP timeout retries)

API, payments & fulfillment

- Extended public shipping-labels API with payment details, proof-of-delivery / cash-on-delivery fields, and rate-purchase linkage
- Built inventory stock tracking with safe concurrent updates across product variants
- Built pickup-point checkout and fulfillment session workflows
- Production incident response: label purchase failures, merchant plugin issues, client-specific integration debugging

Early startup

- Among the first engineers (3–7 person engineering team, 30+ employee company); core backend engineer from day one
- Owned **React Native** builds and app store releases during early startup phase

Stack: Python, Django, Django REST Framework, Celery, PostgreSQL, Redis, GCP, GKE, Docker, PHP, WooCommerce, Shopify API, React, Next.js

IT Administrator · Renaissance Stones

Dec 2022 – Jul 2025 · Addis Ababa (~weekly onsite)

Stone, granite, and marble finishing company with four branches across Addis Ababa. Full-time employee concurrent with remote ShipShap work; sole IT for 150+ employees.

- Deployed **Proxmox** clusters hosting Windows Server workloads at every branch; **ZeroTier** on all sites for inter-branch routing and access
- Managed **Active Directory** user provisioning primarily at headquarters while supporting branch operations
- Replaced a year-one ISP VPN design with **ZeroTier** inter-site routing and **iptables** filtering after unreliable links between sites
- Supported cross-branch **payroll** and **attendance** systems and general IT operations across four locations

Stack: Proxmox, ZeroTier, Windows Server, Active Directory, Linux, iptables

Co-founder · MBAN Developers

2019 – present · mbandevolvers.com

Small web studio in Addis Ababa. Paid per project; my focus on **deployment, server management, and backend** with a mostly **React** stack.

- **G&Y Engineering Consult** — React + **Strapi** CMS and company website (gandyengineering.com)
- **Renaissance Crafts** — frontend and backend for product catalog, storefront orders, admin dashboard, and company website (``rcrafts.et``, likely defunct)
- **Gori Gesha Coffee** — company website (gorigeshacoffee.com)

SELECTED PROJECTS

ZeroTierB *(beta)*

Android ZeroTier client: loopback **HTTP proxy** (libzt, many networks) or full **VPN TUN**; **AUTO** mode picks proxy vs VPN from the physical link. Unofficial; not affiliated with ZeroTier, Inc.

ztnui

Terminal UI (**Go**, Bubble Tea) for managing a local ZeroTier node and self-hosted controller via the ZeroTier One Service API.

B-LAN

Flutter rewrite of D-LAN — share folders on the LAN, discover peers via mDNS, and download with verified chunk resume. Ed25519 device identity; HTTPS with pinned self-signed TLS for peer transfers.

cursor-termux

Unofficial installer for the Cursor Agent CLI on Termux (Android ARM64): npm ``bruk-cursor-termux``, glibc ELF's patched for Bionic, launcher-only ``LD_LIBRARY_PATH`` so Termux-X11 stays intact.

Cashew *(private fork)*

Flutter budget-app fork (upstream jameskokoska/Cashew, GPL-3) with transaction splits, Ethiopia SMS parsing (Telebirr, CBE, Dashen, Zemen), and receipt OCR.

SecureSettingsManager *(private)*

Android app to lock Developer Options, ADB, and third-party accessibility services when sensitive apps are open (Shizuku).

SKILLS

Languages: Python, PHP, Go, Java, SQL

Backend: Django, Django REST Framework, Celery, REST APIs, webhooks, OAuth

Platforms: WooCommerce, Shopify, WordPress

Infrastructure: GCP, GKE, Docker, Linux, Proxmox, ZeroTier, Redis, PostgreSQL, Active Directory

Frontend (adjacent): React, Next.js, React Native, Strapi

Practices: Integration testing, production incident response, async job queues, OpenTelemetry

EDUCATION

B.S. Computer Science · HiLCoE School of Computer Science and Technology · Addis Ababa · 2018 – 2023

High School Diploma · Andinet International School · Addis Ababa

Java and Python · iD Tech Camps, University of Washington, Seattle · 2016

Artificial Intelligence and Machine Learning · iD Tech Camps, UC San Diego · 2018

Back End Development and APIs · freeCodeCamp · 2022

LANGUAGES

English (full professional) · Amharic (full professional)

REFERENCES

Available on request.