

Bruk Berhane Asfaw

Software Engineer

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SUMMARY

Backend and integration engineer; early hire at ShipShap (B2B SaaS — order management, shipping, payments, and fulfillment for businesses selling direct to consumers, including in-house shipping in Kenya). Created core Django apps for carrier and e-commerce integrations from scratch. Primary owner of **DHL Express** integration (**30k+ labels** processed). Built WooCommerce platform integration and production plugin. Remote-first.

EXPERIENCE

Software Engineer · ShipShap

Nov 2020 – Aug 2026 · Remote / Addis Ababa

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-person dev team, 30+ employee company); core backend engineer from day one

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

SELECTED PROJECTS

ZeroTierB *(beta)*

Android app running a userspace ZeroTier node via patched **libzt**, exposing system-wide HTTP proxy access without consuming the device's single VPN slot. Includes managed routes, controller DNS, per-network policy, and NDK builds with 16 KB page-size alignment.

ztnui

Terminal UI (**Go**, Bubble Tea) for managing a local ZeroTier node and self-hosted controller via the ZeroTier One Service API. Encrypted credential storage, client and server management tabs.

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, Redis, PostgreSQL

Frontend (adjacent): React, Next.js

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

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

LANGUAGES

English (full professional) · Amharic (full professional)

REFERENCES

Subhi Beidas · subhi@shipshap.co

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