# Robel Shemeles

Full-Stack Developer & AI Engineer

Addis Ababa, Ethiopia | robelshemeles4@gmail.com | Telegram @Itsurboi_robel | robel-portfolio-ten.vercel.app | github.com/Robel231 | LinkedIn

## SUMMARY

Full-stack developer and AI engineer with 3+ years of experience building and running production systems end to end: FastAPI and Go backends, React and Next.js web apps, Flutter mobile apps, PostgreSQL, Docker and CI/CD. I build AI assistants on n8n and Gemini that are safe to put in front of real users, and my background in system administration and software testing means I care about uptime, security and tests.

## SKILLS

- **Backend:** Python, FastAPI, Go, Django, Node.js, REST APIs, PostgreSQL, MySQL, Redis, Celery, SQLAlchemy, JWT/RBAC
- **Frontend and mobile:** React, Next.js, TypeScript, JavaScript, Tailwind CSS, Flutter (Dart), React Native (Expo), Capacitor
- **AI and automation:** Gemini, OpenAI, Claude, LangChain, RAG, AI agents, n8n, Telegram bots, webhooks
- **DevOps:** Docker, Linux, nginx, Traefik, Cloudflare, GitHub Actions CI/CD, VPS hosting, backups
- **Testing and SEO:** pytest, Vitest, software QA; technical SEO, schema markup, Core Web Vitals, AI search (GEO)

## EXPERIENCE

**AI Specialist & Full-Stack Developer** | Droga Consultancy, Addis Ababa — Nov 2025 to Present

- **DrogaBooking:** built end to end a meeting-room and staff booking platform used by several group companies. FastAPI and PostgreSQL backend with 82 API endpoints and 600+ tests, Next.js web app, offline-first Flutter Android app, email and SMS notifications, per-company billing, deploys through GitHub Actions.
- **DrogaPulse:** built a social media management SaaS that schedules and publishes to Facebook, Instagram, LinkedIn and X, with Gemini captions and analytics reports, a Celery/Redis publishing queue and an Android app through Capacitor. Live since spring 2026.
- **AI assistants on n8n and Gemini**, in daily use: a pharmacy chatbot that reads prescription photos, an HR performance assistant with role-based access for employees, managers and HR, an Odoo ERP assistant and a supplier portal assistant. The AI only runs approved, permission-scoped queries, never its own SQL.
- **Market intelligence dashboard** and AI chatbot for management on regulator import data (Python ETL, FastAPI, React, PostgreSQL).
- **EIMS e-invoicing platform** (Go, in development): multi-tenant platform that registers invoices with the Ministry of Revenue's e-invoicing API: signed requests, per-tenant encryption, RBAC, Amharic PDF invoices, a React console and 360+ Go tests. Also wrote the **Go API** of a group executive dashboard.
- Run the production servers (Docker, Traefik, nginx, Cloudflare, CI/CD) and the SEO for drogaconsulting.com.

**System Administrator** | Abronet PLC — Jan 2024 to Sep 2025

- Kept the company's financial web platforms running at 99.9% uptime.
- Hardened server security and access control.
- Automated routine maintenance with scripts.

**Software Test Engineer** | Transsion Manufacturing — Jan 2023 to Jan 2024

- Found 100+ bugs in products before release.
- Worked with development and product teams across the release cycle, helping raise product quality by 15%.

## SELECTED PROJECTS

- **habesha-names** (open source, on PyPI) pypi.org/project/habesha-names. Python library that matches Ethiopian and Eritrean names for KYC, remittance and HR systems: Ge'ez to Latin spellings and back, spelling variants and sound-alike matching. No dependencies, tested on 1,700+ name pairs, about 50,000 matches per second.
- **Wuten** (personal finance app, Flutter). Reads SMS from Ethiopian banks and telebirr (CBE, Awash, Dashen, Abyssinia and more) to record spending automatically, with budgets, savings goals, equb, debts and an AI assistant that answers from your own records. Amharic and English, ~430 tests.
- **DCS Wellness** (health platform) yene-jegna.drogapharma.rw. Streaming AI diagnostics, Ethiopian food recognition from photos, 4 languages and real-time analytics.

## EDUCATION

**B.Sc. Information Technology** | Mettu University — Oct 2019 to Aug 2023

**English Access Microscholarship Program** | U.S. Embassy, Addis Ababa — Sep 2015 to Sep 2017

**Languages** | Amharic (native), English (full professional proficiency)