

Bohdan Barulin

Backend Developer (Python / FastAPI)

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Summary

Backend developer with hands-on experience in system architecture, high-load data collection pipelines, and business process automation. Built complete solutions solo from scratch: from database design to VPS deployment and custom hardware-software integrations. Specialized in Python (FastAPI), PostgreSQL, and resilient scraping architectures; also build tooling in Go. Focused on resource efficiency and building solutions that measurably save businesses time and money.

Skills

Languages & DB: Python (FastAPI), Go, PostgreSQL, SQLite

Architecture & Infrastructure: Docker, WebSockets, Cloudflare R2, Hetzner VPS, background jobs (Procrastinate), process managers (temps), Let's Encrypt, Tailscale, Cloudflare Tunnel

Scraping & Automation: HTML/DOM parsing, Camoufox (anti-detect browser), browser fingerprint management, rotating proxy pools, scrapy (Android control)

Integrations: RESTful APIs (payment gateways, logistics providers, SMS verification services, Marketing & Ads APIs), GitHub Apps, digital signatures (EDS)

Frontend (Full Stack approach): HTMX, Alpine.js, Tailwind CSS

Languages: Ukrainian (native), English (B1 — Intermediate)

Experience

Freelance / NDA, Backend Developer

Dec 2025 – Aug 2026
9 months

- **Architecture & development:** Designed and built the backend of an end-to-end lead generation and outreach automation system (FastAPI, PostgreSQL, HTMX, Alpine.js, Tailwind). Set up VPS deployment (Hetzner) with the temps process manager; contributed to the tool's open-source repository by reporting issues.
- **High-load scraping:** Built a block-resistant scraper for 3 major classifieds websites (HTML/DOM extraction). A single 2-hour run processes 60,000 listings from one source and identifies up to 10,000 new records. Implemented a pool of 250 rotating proxies with cooldown scheduling.
- **Data engineering:** Reverse-engineered the client-side data rendering of a major automotive marketplace to reliably extract structured listing data. Built and maintained a proprietary database of 450,000+ seller records with listing history and activity tracking.
- **Data processing optimization:** Introduced asynchronous task processing with the Procrastinate queue for fast contact filtering. Automated export of validated data in VCF format to Cloudflare R2.
- **Hardware-software integration:** Integrated physical Android smartphones via a USB hub using scrapy and a WebSocket agent to automate messaging. Processing 1,000 contacts per day, previously done by 3 managers in 9 hours, is now supervised by 1 person in 3 hours.
- **Marketing integrations:** Set up automatic bi-weekly sync of collected contacts with Facebook Custom Audiences for precise ad targeting.

Freelance, Automation Developer

Spring 2026

- Developed a browser automation pipeline for multi-step user flows (sign-up, verification, data collection) on a platform with strict anti-bot protection.
- Used Camoufox with browser fingerprint management to keep sessions stable; ran 10 parallel workers handling up to 100 flows per day.
- Integrated third-party SMS verification APIs to fully automate OTP handling.

Projects

hakobu — self-hosted deployment tool (Go, open source)

Jan 2026

- Self-hosted PaaS that deploys apps from GitHub repos to your own server on push to main — a lightweight alternative to paid platforms. Shipped as a single Go binary with SQLite state and a one-command installer.
- Zero-downtime blue/green deployments behind a built-in proxy with atomic traffic switching; automatic stack detection (Railpack or Dockerfile).
- Built-in PostgreSQL provisioning with scheduled backups to S3/R2, automatic Let's Encrypt HTTPS for per-project domains, optional Tailscale / Cloudflare Tunnel access.
- Sentry-compatible error and log ingestion endpoint, so deployed apps need only a SENTRY_DSN.

Education

BSc **Lutsk National Technical University (LNTU)**, Computer Science

2024 – 2028

- **2nd place, Django Pub Hackathon:** In a 3-person team, built and presented in 3 days a working user authentication module based on qualified electronic digital signatures (EDS).