O'ktambek Amonov

Software Engineer · Backend & Data (Python, FastAPI, PostgreSQL) · Applied AI / ML · Flutter

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SUMMARY

Engineer who ships production systems end to end: backend (FastAPI, PostgreSQL, Redis), offline-first mobile (Flutter), data pipelines, ERP customisation (Odoo) and deployment (Docker, Nginx, TLS). Built and run a multi-tenant field CRM used daily by pharmaceutical sales teams; building one Odoo database for a pharma group with a row-level-secured analytics layer and an LLM agent on top; built an AR/AI heritage guide (MVP) with RAG and LLM vision. Two years in data analysis before that. Trained in ML and deep learning (CNN, RNN, Transformers) and in the habit of proving results with tests, parity checks and honest baselines.

EXPERIENCE

Data Analyst & Backend Developer · BP Pharma (pharmaceutical distributor), Tashkent — Jun 2025 – present

- **LM-CRM — offline-first field CRM for medical representatives** (Flutter · FastAPI · PostgreSQL · Redis · Docker). Designed and built it solo; in production since 2026, multi-tenant, 50+ daily field users, 180+ visits logged per day; 1,400+ commits, 3,800+ automated tests.
- Sync core: local-first storage, mutation outbox with idempotency keys, delta sync on server-trusted time, 409 conflict resolution, row-level security per tenant. GPS-fenced check-ins and photo checks catch fake visits; a region-manager PWA shows the field live.
- **Odoo 19 group database (Oct 2026 – present):** replacing a home-grown BI, spreadsheets and a FaceID portal for three companies. 7 custom modules (~17k lines: sales facts and reports ported from legacy SQL, FaceID attendance, RACI leave approval, order statuses, SLA tracking, role-based access); 21 parity and integration test scripts with zero differences against the legacy data.
- **AI agent on Odoo:** Telegram bot where every question runs with the employee's own rights (Odoo API + per-user PostgreSQL role, real RLS on a clean analytics schema); 15 read-only tools (sales analysis, "why did it drop", attendance, churn risk, forecast); 50-question evaluation of tool choice, answer and faithfulness; forecasting and churn models backtested by time against naive baselines — the baseline won for forecasting and is what ships.
- **LiderMed Academy** — course, timed-test and certificate platform for reps (FastAPI, PostgreSQL); in production, shares identity with the CRM.
- **Reporting & automation:** monthly Excel reports from 32 wholesale distributors consolidated into one table and Power BI dashboards (red-zone regions drove territory decisions); Telegram order bot that cut manual entry errors by an estimated 40%; read-only server status panel (containers, SSL, backups, deploy drift, SSH/fail2ban) in plain Python.

Data Analyst · Indenim (retail), Tashkent — Oct 2024 – May 2025

- Ran stock allocation across stores from weekly performance trends (coverage reports prevented stock-outs); built an Excel-automation bot that halved manual purchase data entry time.

Founder & Engineer (solo) · Meros.ai — AR + AI heritage guide, side project — Aug – Sep 2026

- **Full product in 8 weeks:** Flutter app (offline-first, 5 languages incl. RTL Arabic), FastAPI backend with PostGIS/pgvector, React admin CMS, Astro SEO web, Caddy/Docker production stack; 43 heritage sites across 5 cities.
- **Applied AI:** RAG question answering with citations (pgvector embeddings, keyword fallback); LLM vision identifying a monument from photo + GPS against a closed candidate list with confidence threshold and bounding-box validation; strict JSON-schema outputs; daily cost caps; full fallback without an API key (tests pass offline).
- **NLP:** measured 233 mispronunciations of a commercial Uzbek TTS on a 106k-character corpus, wrote a text normaliser (Roman numerals, decimals, initials, phone numbers) and verified it with a TTS→STT round trip.
- MVP stage, submitted to UzCombinator; repositioned as a B2B licence for tour operators after a competitor analysis. uktambeka.github.io/meros-ai

SKILLS

- **Languages:** Python, SQL, Dart, TypeScript/JavaScript
- **Backend:** FastAPI, Django, SQLAlchemy 2, Alembic, PostgreSQL (PostGIS, pgvector, row-level security), Redis, REST design, idempotency, delta sync, multi-tenancy
- **ML & Deep Learning:** supervised learning (classification, regression, clustering), CNN, RNN/LSTM, Transformers, NLP for low-resource languages; scikit-learn, pandas, NumPy; model evaluation, time-based backtesting
- **Applied AI:** RAG with citations, embeddings, LLM tool use and structured outputs, evaluation harnesses, cost and quota control
- **Data & BI:** Power BI, Excel automation (openpyxl), data modelling, dashboards and KPIs; Airflow · dbt · BigQuery (learning, 2026–27)
- **Business systems:** Odoo 19 (custom modules, ORM, OWL, access rules, legacy-to-ERP migration with parity tests), Bitrix24 (CRM, workflows, REST API)
- **Mobile:** Flutter, BLoC, Drift (SQLite), Hive, offline-first architecture, background sync, biometric auth, l10n/RTL
- **Ops / Web:** Docker Compose, Nginx, Caddy TLS, GitHub Actions, pytest, flutter test; React + Ant Design, Astro; Telegram bots
- **Spoken:** Uzbek (native), English (B2), Russian (A2)

EDUCATION & CERTIFICATES

- Najot Ta'lim — Data Analysis & Backend Development programme, Tashkent, Dec 2024 – Dec 2025
- Data Science certificate; completed courses: Full-Stack Python (6 months), NLP (3 months), Networking (2 months)

Code: the Meros.ai, CRM, Odoo and bot code is private and can be walked through on a call. References available on request.