

Alexandru Toloacă

Backend engineer Chişinău, Moldova alexandru.toloaca@gmail.com

linkedin.com/in/alexandru-toloaca

Backend engineer with 7+ years in Python, building scalable systems for e-commerce, fintech, industrial operations and AI.

I design Django and FastAPI backends on PostgreSQL, with async processing (Celery, Redis), containerized deployments (Docker) and integrations with payment providers, banks, delivery services and social platforms. I also build LLM-powered products, including RAG pipelines on OpenAI APIs and LangChain.

Before that I worked in BI: T-SQL, SSIS, Power BI, and migrating ~30 databases (up to 2.5 TB) to Google Cloud.

Experience

Mit-dev.com

Sep 2024 – now

Python Developer, Chişinău

- 01** Built a scalable e-commerce platform with deposit management, a custom CMS, secure payment processing and Instagram API integration.
- 02** Designed a debt management platform for a micro-finance company, with real-time monitoring and reporting dashboards.
- 03** Async processing and caching with Celery and Redis; responsive frontends in React and Next.js.

Stack Python, Django, PostgreSQL, Celery / Celery Beat, Redis, Docker, React, Next.js

SmartData

May 2024 – Sep 2024

Python Developer, Chişinău

- 01** Designed and built RESTful APIs for well-drilling operations: project management, equipment monitoring and geological data processing.
- 02** Multi-database architecture (PostgreSQL and MongoDB), with Firebase for real-time data sync and cloud storage.
- 03** Containerized services with Docker; focused on availability and performance for mission-critical operations.

Stack Python, FastAPI, Flask, PostgreSQL, MongoDB, Docker, Pydantic, OpenAI, LangChain

Yopeso

Nov 2023 – May 2024

Python Developer, Chişinău

01 Architected and implemented an advanced RAG (Retrieval-Augmented Generation) document-retrieval system on OpenAI APIs.

02 Built REST APIs with FastAPI for AI service integration.

Stack Python, FastAPI, PostgreSQL, Celery / Celery Beat, Redis, AWS Kendra, OpenAI APIs, Docker

SmartData

Aug 2020 – Oct 2023

Python Developer, Chişinău

01 Built an integration adapter between an e-commerce platform and accounting software, handling orders, product, price and stock synchronization and notifications.

02 Developed the backend for a worldwide artist marketplace mobile app, with blockchain, banking and local delivery integrations.

03 Built a credit-workflow system with multi-role, multi-level approvals, automating used-car financing for companies in the US and Canada.

Stack Python, Django, Flask, PostgreSQL, MySQL, Celery / Celery Beat, Redis, AWS, Firebase

Monsato SA

May 2019 – Aug 2020

BI Developer, Chişinău

01 T-SQL development and SSIS (SQL Server Integration Services) package development.

02 Migrated ~30 databases (largest 2.5 TB) from bare-metal servers to Google Cloud Platform.

03 Data analysis and visualization with Power BI and SSRS.

Stack SQL Server, T-SQL, SSIS, SSRS, Power BI, Google Cloud Platform

Education

2018 – current **Master's degree**, Technical University of Moldova

Aug 2015 – Jun 2019 **IT Engineer**, Technical University of Moldova

Aug 2011 – Jun 2014 **IT Technician**, College of Informatics, Chişinău

Skills

Backend	Python, Django, Django REST Framework, FastAPI, Flask, REST APIs
Databases	PostgreSQL, Microsoft SQL Server, MySQL, MongoDB, Redis
Async & DevOps	Celery, Docker, Amazon Web Services, Google Cloud Platform, Firebase
AI / LLM	Large Language Models, Retrieval-Augmented Generation, OpenAI API, LangChain
Frontend & Mobile	JavaScript, React, Next.js, Flutter
BI & Data	Transact-SQL, SQL Server Integration Services, Microsoft Power BI

Languages

Romanian	Native
Russian	Listening and reading C1, speaking B2, writing B1
English	Listening, reading and speaking B2, writing B1
French	A1

How I work

Analytical thinking, focus on results, research and documentation, team work.

Communication built over years as a Web and BI developer: working in cross-functional teams and leading technical discussions with stakeholders across projects and academic initiatives.