Viktor Andriichuk
Python Software Engineer with experience in Data Engineering / AI / DevOps
4 years of experience in Python Backend Engineering from 6 years of different experience in IT as an engineer

Contacts:

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Location: Romania, Bucharest

Summary:

Specializing in finding optimal technical solutions for complex business problems, I utilize a comprehensive array of theoretical materials and a wealth of experience to apply best current practices uniquely tailored to each scenario. With a profound background in Python Backend Development, AI, DevOps, and data engineering, my expertise is well-suited to assist companies in these rapidly advancing sectors.

Technical skills:

Python, FastAPI, Flask, RESTful API, MongoDB, PostgreSQL, Mongo Engine, Pydantic, Celery, Docker, Alembic, Redis, RabbitMQ, Unittests, pytest, OpenTelemetry, LLM, LangChain, LangGraph, ElasticSearch, Git, GitHub Actions, Streamlit, Nginx, CI/CD by GitLab, AWS Glue, AWS Athena, AWS Aurora, AWS StepFunctions, AWS RedShift, AWS Quicksight, AWS S3, AWS Lambda Functions, OpenSearch, Spark, Snowflake, dbt, Great Expectation, numpy, Airflow, LLM.

Professional Experience

Project:	Freelance Consultant (RAG, LLM, Backend)
Period:	10.2024 - 01.2025
Role:	Software Engineer, Data Engineer
Achievement, Pride	Worked with clients via Upwork, primarily from the USA and Canada, earning $15,000 and maintaining a 90% job success rate.

bsdmvmtltd - E-shop (US)

- Modernized analytics infrastructure by migrating legacy analytics to a contemporary tech stack, while optimizing complex SQL queries that resulted in a 10x reduction in AWS data processing costs and significant performance improvements.

Tools: RedShift, dbt, AirFlow, Airbyte, Quicksight.

RAG System for Financial Documents (USA) - developed a solution based on Llama Index and Neo4j, enabling rapid retrieval of relevant information from financial documents.

- Significantly accelerated information lookup for the client's financial documentation.
- Improved search accuracy through the use of graph-based data structures.

Tools: LLM, Python, CI/CD, Docker, Pytest, Redis, Asyncio, Celery, Open Telemetry, Llama Index, Neo4J, MongoDB.

Automated System for Insurance Queries (USA) - created a system that receives user inquiries (by phone or email) and searches for relevant insurance information in the client's database:

- Reduced response times for clients seeking insurance information.
- Lowered support center workload and enhanced customer satisfaction.

Tools: OpenAI, Python, CI/CD, Docker, Pytest, Redis, Asyncio, Celery, Open Telemetry, MongoDB, ML.

RAG System for an Investment Manager (Canada) - built an intelligent system that generates the necessary answers from documents, leveraging AWS Bedrock, AWS Kendra, and MongoDB.:

- Enabled the investment manager to access comprehensive investment reports and materials quickly.
- Delivered precise analytical answers reflecting key financial metrics and strategies.

Tools: LLM, Python, CI/CD, Docker, Pytest, Redis, Asyncio, Celery, Open Telemetry, AWS BedRock, AWS Kendra, MongoDB.

Project:	GartTech, a company at the forefront of developing an innovative platform for client bots utilizing Large Language Models
Period:	03.2024 – 09.2024 (short-term contract)
Role:	Python Backend Software Engineer, Solution Architect, Team and Tech Lead

Achievement, Pride

- Directed the technical team (15 persons) in creating an updated core product, substantially enhancing platform efficiency. This initiative accelerated client bot development by 40 times and reduced costs by 80 times.
- Established a transparent and fair grading system for technical specialists that incorporates an effective wage calculation method, ensuring contributions are recognized and fostering a positive work environment.
- Set development standards that increased update deployment speed by 10 times.
- Designed a scalable project architecture, which made it possible to speed up the process of deploying client bots by 10 times and reduced system maintenance costs by 20 times.

Tools: LLM, Python, CI/CD, Docker, Pytest, MongoDB, QdrantDB, Redis, Asyncio, WebSocket, Open Telemetry, FastAPI, Pydantic, RabbitMQ.

Project: Freelance Consultant

Period: 10.2023 - 03.2024

Role: Software Engineer, Solution Architect, Team and Tech Lead

Achievement, Pride

PICHE/HOTCODE – the biggest Latvian construction company/the IT department of the company. The project - to integrate LLM agent into all internal CRM processes of this large company:

- While developing the CRM for internal use in the company, I implemented the LLM so that users using LLM could manage various processes in the CRM. As a result, this increased employee engagement in managing CRM by 50% and reduced time spent on routine tasks.
- Integrated OpenTelemetry for automatic logging of all code processes, including errors, which decreased the time spent finding issues by 10 times.
- Developed dashboards from these logs to monitor project status and identify critical code errors, increasing the speed of error detection and resolution by 200%.
- Adopted Test-Driven Development (TDD) strategies, cutting the incidence of bugs by 50%.

Tools: LLM, Python, CI/CD, Docker, Pytest, Redis, Asyncio, Streamlit, Open Telemetry, RabbitMQ.

Data Platform for Insights for Fabiosa Media - the top #4 Facebook media publisher in the world:

- I created a platform where businesses can find insights into their data and build dashboards and recommendations from Gen AI. It helps to decrease the time for making decisions.

Tools: Python, CI/CD, Docker, Pytest, Streamlit, Pandas

Project: Deloitte V360 – a big analytics platform for one of the biggest consultant groups in the world

Period: 02.2023 – 10.2023

Role: Big Data Engineer, Machine Learning Expert

Achievement, Pride:

- Achieved a 6x improvement in data processing performance through comprehensive optimization of SQL queries, data storage architectures, and processing methodologies, significantly enhancing the platform's analytical capabilities.

Tools: AWS Glue, AWS Athena, AWS RedShift, AWS DynamoDB, AWS Step Functions, AWS Lamda Functions

Project: Healthcare Domain Network of Sites (Global Logic)

Period: 11.2021 – 02.2023

Role: Python Software Engineer, Data Engineer

Achievement, Pride:

- Engineered a robust data pipeline infrastructure that transformed raw healthcare data into analysis-ready datasets, enabling data scientists to conduct accurate analyses and build reliable ML models while maintaining data quality standards.
- Implemented a secure CDC (Change Data Capture) system using Debezium and Kafka to synchronize terabytes of healthcare data from PostgreSQL to Snowflake, ensuring zero data loss and maintaining system performance.

Tools: Snowflake, dbt, Great Expectation, Python, Kafka, PostgreSQL

Project: PepsiCo – Southern Africa, Australia branches (contract at Provectus)

Period:	03.2021 – 11.2021
Role:	Data Engineer
Achievement, Pride:	• Architected and implemented a Data Warehouse from the ground up, enabling business teams to make data-driven decisions through actionable metrics and KPIs, transforming raw data into strategic business insights
Tools:	dbt, Snowflake, pytest, Docker, AirFlow
Project:	Appen – Quality AI training data for the AI lifecycle (contract at Provectus)
Period:	06.2020 – 03.2021
Role:	Data Engineer
Tools:	dbt, AWS AirFlow, AWS RedShift
Project:	Analitycs Dashboards (contract at Provectus)
Period:	03.2020 – 06.2020
Role:	Python developer
Tools:	AWS S3, AWS Glue, AWS Athena, AWS Quicksight, AWS S3, AWS Lambda Functions (Python for collect data and save to S3)
Project:	BSG - A Globally Renowned Company Specializing in SMS and Email Campaigns.
Period:	01.2017 – 03.2020
Role:	Python Backend Developer, Machine Learning Developer
Responsibilities included:	• AntiSpam Machine: Developed an AntiSpam microservice for the marketing platform using Flask, MongoDB, Redis, and machine learning algorithms. The system reduced the cost of spam detection by 10 times. • Recommendation System: Developed a recommendation system using machine learning techniques. The product increased the company's profits 3 times. • Chat-bot: Developed backend solutions for chat-bots on platforms such as Telegram and Facebook Messenger. The product increased the company's profits 5 times.
Tools:	Python, Redis, PostgreSQL, Flask, Docker, CI/CD, MongoDB, ML

Education:

Institution:	Kharkiv National University of Radio Electronics
Qualification(s):	Data Science, Master's degree
Institution:	EPAM Master’s Program
Qualification(s):	Big Data Cource, Masters Program
Institution:	National Technical University of Ukraine 'Kyiv Polytechnic Institute'
Qualification(s):	Applied Mathematics, Master's degree
	And a lot of different professionals courses.

Domains, Directions: Telecom (SMS-, Email-marketing), Social Media, Health Care, E-commerce, Gaming, Agro, Messengers, LLM.

Languages: English – B2; Turkish – A2; Ukrainian, Russian – Native; Romanian – A2.