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Anastasiia-Mariia Kovalyshyn

Junior Big Data Engineer

About me

I love minimalism and simplicity in everything, first of all in the code. A little bit stubborn, but it gives me inspiration to make my ideas and projects real. I am an enthusiastic, self-motivated, responsible and hard working person, well organized and always plan ahead to make sure I manage my time well. A girl with huge ambitions and a desire to make world around me more comfortable:)

Education

- 2015–2019 **Bachelor Degree in Computer Science**, *Lviv Politechnic National University, Lviv.*
Specialized in automated control systems.
- 2019–2020 **Master Degree in Computer Science**, *Lviv Politechnic National University, Lviv.*
Specialized in automated control systems.

Publications

- 2019 *Spatial orientation based on sensor network bi-planar triangulation, NULP.*
- 2018 *Erasmus Programme exchange automated categorization and evaluation, NULP.*

Skillset

Programming languages / Technologies

- Python
- Scala
- Bash

Libraries and Frameworks

- Boto3
- Apache Spark
- Apache Akka
- Django

ETL Toolkit

- Apache Airflow
- Apache Nifi
- Apache Kafka
- HDFS
- Hive
- Presto

Cloud Computing

- AWS S3
- AWS Kinesis
- GCP Cloud Storage
- GCP PubSub

RDBMS

- o SQLite

- o PostgreSQL

Development tools

- o IntelliJ IDEA
- o Pycharm Community
- o Git

- o Docker
- o Kubernetes
- o google.com :)

Methodologies

- o SCRUM

- o Kanban

Languages

Ukrainian Native

Russian Second native

English Intermediate

Interests

- o Chess

- o Cinematograph

- o Space

- o Comics

- o Traveling

Experience

Nov 2019 – **Trainee, Junior Big Data Engineer, Sigma Software, Lviv.**

Jan 2020 OPENSky PROCESSING APPLICATION

Duration: 2 months.

Technologies: Scala, Apache Akka, Apache Kafka.

Progress at current stage: FINISHED.

Description: Developed application using Scala programming language, Akka framework and Apache Kafka. Application was created to ingest data, transform it into JSON, calculate specific data (number of airplanes around pre-defined set of airports within pre-defined range) in batch of the data for the particular time window and write transformed data into Kafka. Created REST API of the application to make results available for reading.

Sep 2019 – **Trainee Big Data Engineer, Sigma Software, Lviv.**

Oct 2019 MULTI-CLOUD ETL PLATFORM

Duration: 2 months.

Technologies: Python, Boto3 (Azure/GCP CDK for Python), Apache Airflow.

Progress at current stage: FINISHED.

Description: Developed ETL pipeline that operates in three clouds (AWS, GCP, Azure). Pipeline ingests data from generated files, converts it into JSON, moves over FS.

May 2019 – **Trainee Big Data Engineer, Sigma Software, Lviv.**

Aug 2019 INTERNATURE

Duration: 4 months.

Technologies: Spark, HDFS, docker, PostgreSQL, Apache Nifi, Apache Kafka.

Progress at current stage: FINISHED.

Wrote pipelines for ingesting, conversion and processing using Apache Nifi and Apache Kafka. Created a diagram of data processing pipeline from previous point using Lambda architecture approach. Modelled database schemas with relational and dimensional modelling approaches. Wrote simple sql-queries (stick to PostgreSQL as a vendor). Deployed local cluster using docker containers with HDFS, Hive and Presto. Wrote simple batch and streaming Spark jobs.

2016 – April **Freelance, LPNU, Lviv.**

2019 Was trying to find myself in different branches. Attended Python web development (full-stack) courses. Had my own projects, though all of them were somewhat connected to LPNU.