

Profile #1

SENIOR DATA ENGINEER

Skills

Python

Pandas

AWS

Scala

Snowflake

Docker

RabbitMQ

ETL

SQL

Profile

Data Engineer with 15 years of professional experience in the **telecom industry**
The main area of expertise: **managing data processing projects**

He **acquires, processes**, merges, and enriches **data** from various sources in line with **business requirements, automating** it using **open-source tools**.

He analyses and **proposes solutions and improvements** for billing, marketing, and data monetizing for internal and external clients

He **supports maintaining** the quality of provided services and **lead teams** consisting of Data Scientists and developers

His duties include **maintenance of in-house tools**, examples of which are hybrid data processing clouds, **Customer Experience Management solutions, subscriber geolocation systems and billing systems**

Overview

Availability: **1 month**

Rate: **€35-40 per hour**

City: **Warsaw**

Relocation: **Not interested**

Employment History

Lead Data Engineer/Big Data Developer – Swedish telecom company

DECEMBER 2019 – PRESENT

Job responsibilities:

- Data preparation (areas: billing, network and service planning, monitoring)
- Training, administration, optimization, access and management of DB objects
- Integration with the **AWS ecosystem: SNS+SQS, Lambda, S3, Kafka Connect**
- Implementation of the **Snowflake** solution in the organization (data migration from PostgreSQL, MySQL, MongoDB, Cloudera Data Platform (Hadoop),
- Co-creation and analysis of multiple data sources for the **BI team (Qlik Sense applications)**
- Creation and implementation of the **R** environment for the **Data Science** team (Rstudio Professional Environment: Servers, Connect, Package Manager)
- Creation and implementation of a hybrid processing environment for data collection, preparation and modelling (**Python/ Docker/ RabbitMQ/ Kafka/ PostgreSQL/ Impala/ Elasticsearch/ AWS/ PySpark/ Airflow**)
- **Data management and development** (Pandas / NumPy / SQLAlchemy / Eland / Data Marts) – their quality, origin, storage, retention, flow, observation of events

Tech stack: (Python / Snowflake / Airflow/ AWS)

Chief Technical Specialist - Polish telecom company

MARCH 2016 – DECEMBER 2019

Project: all executed in the in-house model, executed successfully:

1. Geolocation of active cards in the online mode for the needs of regulated security services (RCB Alert, informative campaigns)
2. Monitoring and handling of roaming notifications (service and cost optimization)
3. Monitoring of breakdowns, service degradation, traffic distribution, and service restoration

Job responsibilities:

- **Promotion granted for i.e.:** creation and implementation of a Customer Experience Management system for all services (300+ simultaneous users) – diagnosing and solving subscriber’s problems during calls (data available within few seconds)
- **Increase in the scope of responsibility:** conducting projects of strategic importance for the company (imposed by the Office of Electronic Communication, cooperation with governmental institutions) – ensuring data security, trend analysis, setting directions of changes
- **Increase in the scale of projects:** responsibility for strategic projects

Senior Technical Specialist

NOVEMBER 2013 – MARCH 2016

Project: (increase in the technical advancement level in comparison to those executed in the Specialist position)

1. Development and implementation of the Customer Experience Management solution – replacing previous solutions, extending the scope of data processing (150TB daily)

– savings of EUR 4 -10 MLN. Technologies: Python/ C/ Docker/ Git/ Mesos/ Marathon/ AngularJS/ PostgreSQL/ Elasticsearch/ Kafka/ RabbitMQ/ RHEV/ ManageIQ/ Ansible

2. Development and implementation of IMS network monitoring (alternative to paid solutions). Interception and analysis of a 15Gbit/s constant data stream (nProbe for Intel chipsets/ Python/ Docker/ C/ PostgreSQL/ RabbitMQ)

Job responsibilities:

- **Promotion granted for, among others:** implementation of a virtualized environment (RHEV/oVirt) – migration of solutions towards microservices (Kong API GW/Flask) and implementation of a distributed data processing based on **Kappa architecture**
- **Increase in the scope of responsibility:** controlling the expansion of a central data warehouse (Oracle RAC) in the technical division, providing and processing measurement, configuration, inventory data, as well as alarm data from all classes of devices and suppliers
- **Increase in the scale of projects:** tendering and reviewing integration aspects, processing and collection of data as a part of ongoing tenders and purchases

Technical Specialist

SEPTEMBER 2008 – NOVEMBER 2013

Job responsibilities:

- **System administration** Nokia NetAct, Ericsson OSS-RC/ENM, IBM Netcool Omnibus and Tivoli products, II and III support line for Mission-critical systems (24x7)
- **OSS systems optimization** OSS (monitoring, development, maintenance)

- **Special projects management** (eg. Central radio planning system)
- Preparation of requirements, tests and trials with suppliers (e.g. Radcom, Ericsson, Nokia)
- **Selection of software** and hardware according to the technical departments' needs (purchase budget management, negotiations, implementation process monitoring)
- **Providing training** for the OSS team and the technical division (**e.g. TechTalks**)
- **Cooperation with OSS** suppliers (Ericsson, Huawei, Nokia)
- Breakdown management, resolving internal issues
- **Developer and integrator duties:**
 - Integrations of IBM Netcool and network elements
 - JEE application service cluster based on Glassfish and Nginx,
 - Processing of network events in the cloud based on the OpenNebula/KVM project
 - A central backup system based on HP Data Protector, custom disk2disk packages
 - Virtualized XEN/KVM environment for the technical department based on COTS servers

IP Product Specialist

JANUARY 2007–NOVEMBER 2008

Computer Product Specialist

FEBRUARY 2005–JANUARY 2007

Education

Studies: M. Sc. in Engineering, The Faculty of Electronics and Information Technology, Warsaw University of Technology, Warsaw, Poland, 2005 – 2007

B. SC., Engineer's degree, The Faculty of Electronics and Information Technology, Warsaw University of Technology, Warsaw, Poland, 2001 – 2005