



JURAJ KUBICA

Senior Data Engineer/Data Architect/SW Architect

PROFIL

As an IT professional specializing in architecture, design and cloud based solutions, I have extensive experience in data engineering and system integration, utilizing Python, Java, Spark, AWS and Databricks to develop innovative solutions.

My expertise in AWS and Databricks enables me to design and implement scalable architectures tailored to meet evolving business needs.

I am passionate about learning new technologies, with a keen interest in AI and the latest trends in AWS, Databricks and data integration. By integrating AI into my daily work, I continually enhance my performance and skills to stay ahead in this rapidly evolving field.

CONTACT

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WORKING EXPERIENCES

Profinit - IT Architect

01.2018 – now

Working as IT consultant and IT architect on various projects, mainly in field of pharma industry and financial sector. Mainly focusing on Data and SW Architecture

My roles:
Big data developer, Tech lead, Architect

CGI - Analyst/Programmer

06.2015 – 12.2017

I worked with focus on Java and System integration applications. I gained extensive experience within the Java and SW Architecture.

My roles:
Java developer, Tech lead

Onesto GmbH – Java Programmer

05.2014 – 05.2015

I worked on customer management system as a Java Programmer. My responsibility was coding of new features and design and improve various components of Onesto application.

My roles:
Java developer

Scheidt & bachmann Žilina

11.2012 – 04.2014

My first working experience in field of IT. I worked there during the study to supplement my learning with practical experience. My work was to develop the emulator to replace expensive HW device for testing petrol station processes which was archive.

My roles:
Java developer

MAIN PROJECTS

DI Gateway

10.2024 – now

Customer:

- MSD Czech Republic (as contractor from Profinit)

Description:

- A portal for managing and working with data integration tools. It integrates and standardizes the creation of data pipelines, process orchestration (using Airflow), data infrastructure setup, and the onboarding of various data integration products.
- In addition to providing a unified user interface, the goal is also to incorporate AI assistants to support each part of the application
- Providing AI assistant to create UI pipelines with prompting the requests (in progress)

Key features of project:

- Unified User Experience: Provides a consistent and intuitive interface for interacting with various data integration tools, reducing the learning curve and improving usability across teams.
- Centralized Onboarding: Streamlines and standardizes the onboarding process for data integration products, enabling faster adoption and easier governance.
- End-to-End Pipeline Management: Facilitates the creation, deployment, and monitoring of data pipelines and workflows using Airflow, all within a single platform.
- AI-Powered Assistance: Offers integrated AI assistants to support users in designing pipelines, configuring integrations, and troubleshooting issues—boosting productivity and reducing manual effort.
- Improved Collaboration: Serves as a central hub for data engineering and analytics teams, improving visibility, coordination, and efficiency across projects.
- Scalable Infrastructure Setup: Simplifies the provisioning and management of underlying data infrastructure, enabling faster setup and better resource utilization.

My role:

- Architecture, Design

My activities on project:

- Designed the architectural concept of the solution
- Collaborated closely with the project team, product owner, and stakeholders to gather and refine requirements
- Created detailed designs for specific application components, including modules, CI/CD pipelines, and security architecture
- Provided technical leadership and guidance to the development team
- Aligned future strategy with platform leads and the enterprise architecture team
- Contributed to implementation efforts by setting up repository structures, creating the initial application backbone, and supporting feature development

Technologies:

- AWS (EKS, ECR, Lambda, KMS SecretManager, S3,...), Python 3, FastAPI, SQL Alchemy...

Data integration framework

01.2021 – now

Customer:

- MSD Czech Republic (as contractor from Profinit)

Description:

- Continuation of the project AWS Glue data pipeline enhanced by multiplatform support (Glue, Databricks, Streamsets,...)
Idea stayed the same as for AWS Glue data pipeline - provide unified solution how to create data pipelines.

Key features of project:

- Unified Development Framework: Delivers a consistent and standardized approach to building ETL/data pipelines across teams and projects, improving maintainability and reducing onboarding time.
- Reusable Components: Encourages code reuse through modular pipeline components, reducing duplication and increasing development efficiency.
- Automated Deployment: Enables seamless auto-deployment of pipelines, minimizing manual intervention and reducing the risk of deployment errors.
- Accelerated Delivery: Speeds up pipeline development and deployment by over 50% compared to previous solutions, significantly improving time-to-value.
- Providing AI assistant to help user to better understand the framework and help to build data pipelines

Technologies:

- AWS (Glue, SecretManager, S3, Lambda, ECR, ...), Spark, Python 3, OpenAI, Gradio, Terraform, Databricks, Streamsets

My activities on project:

- Designed the architectural concept of the solution
- Collaborated closely with the project team, product owner, and stakeholders to gather and refine requirements
- Created detailed designs for specific application components, including modules, CI/CD

My role:

- Technical team lead, design, architecture

AWS Glue data pipeline

11.2019 – 12.2020

Customer:

- MSD Czech Republic (as contractor from Profinit)

Description:

- A framework for building ETL and data pipelines using AWS services—primarily AWS Glue. The goal is to provide a unified solution and a modular set of reusable components that can be leveraged across multiple projects requiring data pipeline development.

Technologies:

- AWS (Glue, CloudFormation, SecretManager, S3,...), Spark, Python 3,...

My role:

- Big data developer, design

Pipeline 1.0 – 2.0

01.2018 – 11.2019

Customer:

- MSD Czech Republic (as contractor from Profinit)

Description:

- Creation of data pipelines based on Model driven architecture (later data driven as MVP for version 2.0). As a source were various systems which provided us data as CSV files, Json files as a result of API calls, databases,... As a result were data lake which provided unified data to various consumer

Technologies:

- Hadoop, Python 2, Spark, Java, PowerDesigner, Teradata, Ansible...

My role:

- Big data developer

CMSS eLiska - Multichannel Infrastructure (MCSB)

10.2016 – 12.2017

Customer:

- CZ Finance institution

Description:

- MCI is integration layer between core systems and frontends. MCI take care about exposing of REST api, validation, processing and orchestration of requests to others core systems. My role was leading of team

Technologies:

- Java EE7, Spring, Elasticsearch, Vert.x, Rest API, Hazelcast, Consul, Clustering, UML, Enterprise architect, Oracle

My role:

- Technical team lead, Architect

Billing Adapter

06.2015 – 10.2016

Customer:

- O2 Telefonica Czech Republic

Description:

- Billing adapter is a platform providing access to the billing system for other applications. It is kind of integration platform between CRM and core billing systems. It is application running on application server Wildfly, using JMS and WS for integration and transformation of data between other billing systems.

Technologies:

- Java EE7, Apache Camel, Wildfly/JBoss, UML, Enterprise architect, JMS, Soap WS, Oracle DB

My role

- Senior Java developer

Onesto

05.2014 – 05.2015

Customer:

- Onesto GmbH

Description:

- Onesto is a web-based Business Travel Management system, which connects companies with their Travel Agencies and the travel instrument providers (Flight, Train, Hotel, Rental Cars). Offering a data and transaction administration, Onesto is an online solution for realizing a standardized online booking infrastructure.

Technologies:

- Java, JSP, Maven, Oracle DB, Svn, Eclipse, Servlets

My role:

- Java developer

EDUCATIONS

University of Žilina

2012 - 2014

Engineer's degree, Applied informatics

University of Žilina

2009 - 2012

Bachelor's degree, informatics

CERTIFICATIONS

AWS Certified AI Practitioner

https://www.credly.com/badges/119f348b-e6b8-4e7f-a245-d6e9ef70e252/linked_in_profile

AWS Certified Solutions Architect – Associate

https://www.credly.com/badges/4547e28b-0e4d-4811-a78b-80664f3281f6/linked_in_profile

Databricks Certified Data Engineer Professional

<https://credentials.databricks.com/570769bc-33ab-45c6-ae1a-e55d65c80ef6#acc.x7TBcOJH>

Databricks Certified Data Engineer Associate

<https://credentials.databricks.com/4942430e-b1e0-417d-87bd-b0cd702be874#acc.oJ02CVHi>