

# Curriculum Vitae of Karlo Kahlina

## Personal details:

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## Work experience:

**05/2025 – 05/2099: Valcon**

### Project Description:

Responsible for the development of data pipelines within a Data Warehouse system, especially for the risk department. This system utilizes Oracle, Teradata databases, PowerCenter and Power Designer as modeling tools.

Apart from my daily development tasks I work as a Team lead for 5 people, where I help and guide less experienced colleagues within the project.

**Role in the team:** Senior Data Engineer, Team Lead

**Technologies Used:** Teradata, Oracle, Power Designer, PowerCenter, GitLab, Tableau, OpCon

**07/2024 – 04/2025: Huddle Tech - Modern Data Warehouse**

### Project Description:

Responsible for the design, development, and ownership of data pipelines and architectures within a modern Data Warehouse system. This system utilized Snowflake and a Kubernetes Cluster on Oracle Cloud, built upon Oracle Infrastructure as a Service. Its purpose was to support Quant and Management in their decision-making processes and to detect fraud within Gambling.

**Role in the team:** Senior Data Engineer

**Technologies Used:** Python, Apache Spark, Kafka, Argo, Snowflake, Metabase, GitLab, Airbyte, SnowDDL, Terraform, Apache Airflow, Kubernetes, Oracle Cloud, AWS, Grafana

## Responsibilities:

- Supported the Data Engineering Team Lead and the VP of Analytics with architectural and tactical decision-making.
- Shared knowledge of Data Engineering, Cloud, and DevOps with junior colleagues.
- Developing and rewriting Data Pipelines
- Deploying and upgrading Applications on Kubernetes Cluster
- Database optimization
- Building reports

**01/2024 – 06/2024: IBM iX Croatia - Marketing campaign in retail sector**

### Project Description:

New Adobe platforms running on Microsoft Azure were introduced at a client site for new marketing campaigns. The idea was to build a new “marketing” DWH in Adobe Experience Cloud integration that had to be made with systems running on Google Cloud and on-premise.

**Role in the team:** Senior Data Architect

**Technologies Used:** Adobe Experience Platform, Google Cloud, Python, GitHub, Postman, BigQuery

**Responsibilities:**

- Provided support to the Integration team working on GCP through the introduction of new ideas and the improvement of the current situation
- Developed new pipelines in Adobe Experience Cloud
- Data Architecture
- Mentoring less experienced colleagues and encouraging them to try technologies outside Adobe tech stack
- Discussions with upper management in restructuring the teams and convincing them to focus more on the Cloud and Hybrid cloud projects

**10/2022 – 11/2023: IBM Austria - Modernization of on-premise DWH**

**Project Description:**

For one of the largest public sector databases our task was to modernize the existing solution running on IBM/Kyndryl mainframe. The project involved multiple VM instances, and the database used was Oracle. Technologies employed in the project included SAS, Shell scripting, and UC4. Coding was primarily done in Notepad ++ and Oracle SQL Developer, without any source code management (SCM) such as Git or SVN.

Consequently, development was extremely costly, complicated, and error-prone due to the lack of test environments and coding on production systems.

**Role in the team:** Solution/Data Architect

**Technologies Used:** GitLab, Flyway, DBmaestro, Kafka, Docker/Podman, OpenShift, SAS, SQL, Oracle

**Responsibilities:**

- POC and introducing new concepts and ways of working
- Solution/Data Architecture meetings
- Building a relationship with a client

**03/2021 – 09/2022: REWE International (Riag Digital)**

**Project Description:**

Built a new, modern DATA LAKEHOUSE on Google Cloud Platform. The idea behind it was to build and integrate new sources, and to switch off the on-premise Oracle Database. The Oracle DWH Database was essentially a 1:1 copy of a live system with some additional dimension tables and schemas. This multi-country project involved a significant number of different countries in Europe where REWE had a presence. Our approach was to be "GCP-first," which involved building our own VPC on the Google Cloud Platform.

**Role in the team:** Senior Data Engineer

**Technologies Used:** Python, SQL, Terraform, Oracle, Apache NiFi, Apache Airflow, BigQuery, GitLab, Vault, DBEaver, Grafana

**Responsibilities:**

- Design and implement a new Data Lakehouse

- Prove before management my design and architecture of a Data Lakehouse
- Solution Architecture meetings
- Building a trustworthy relationship with clients inside the company
- Present the power and speed of development in the Cloud environment
- Data Anonymization

### **11/2019 – 02/2021: Erste Group IT in Vienna**

#### **Project Description:**

Modern Data Lake based on IBM mainframe and Oracle technologies. One of the crucial systems in a bank, with high sensitivity on data quality and time delivery.

**Role in the team:** Data Lake Engineer

**Technologies Used:** Java, Python, Oracle Data Integrator

#### **Responsibilities:**

- Design and implement the new Data Lake sources
- Communicate with management in regard with new sources
- Communicate and understand from source systems structure and the expected data and type
- Demand sending of a control file together with data files (when possible)
- On-call support when needed

### **10/2018 – 10/2019: Erste Group IT in Vienna**

#### **Project Description:**

Implement a new DATA-VAULT Data Warehouse on-premise system. This system could later be used as a blueprint for the Data Warehouse in the Erste Group.

**Role in the team:** Technical Analyst

**Technologies Used:** SQL, Excel, SVN

#### **Responsibilities:**

- Designed and identified new data sources for data streams into the new Data Vault warehouse, primarily from a central Data Lake system
- Understand the nature of the data and how it can be mapped
- Translate business requirements into IT language and present them to a development team in Bratislava
- Regular meetings with business/source stakeholders

### **02/2018 – 09/2018: Erste Group IT in Vienna**

#### **Project Description:**

There is a newly developed Data Warehouse based on the IBM data model within the company. The project was intended to be a blueprint for Data Warehouses across the company. The Data Warehouse was developed by a mixed group of consultants from different companies. My task was to take over the maintenance of this warehouse and continue with developments based on business requirements.

**Role in the team:** Solution Analyst

**Technologies Used:** Oracle, Oracle Data Integrator, Java, Excel

**Responsibilities:**

- Developed new data streams into the warehouse, including data from the New York, London, and Hong Kong stock markets
- Additional development of the scheduling system
- Support of business colleagues
- Provided third-level on-call support

**06/2016 – 01/2018: Erste Steiermärkische Bank in Croatia**

**Project Description:**

Older data warehouses with already implemented procedures and responsibilities. There were four teams responsible for the warehouses' functionality: the Production Team, the Application Support Team, the DWH Development Team, and the Database Admins Team. The fifth team was composed of Architects; however, they were not responsible for the DWH's operation.

**Role in the team:** Junior Developer/Analyst

**Technologies Used:** Oracle Database, Oracle Warehouse Builder, Oracle Data Integrator, Java, Excel

**Responsibilities:**

- Regulatory reporting (Croatian National Bank, Hrok)
- AD-HOC reports
- Credit cards and risk departments' reports
- Human resources expenses reports
- Database optimization
- Provided third-level on-call support

**06/2015 – 09/2015 Hrvatski Telekom (Student Part time)**

**Technician for computer networks**

- Maintenance
- Expanding Wi-Fi range of home routers

**Education:**

**2011 – 2015 Bachelor of Science in Information Technology,**  
University of Zagreb Faculty of organization and Informatics, Varaždin

**2007 – 2011 High school Krapina**  
Technician of mechatronics

**Certificates/Learnings:**

- **IBM:**
  - Architectural Thinking
  - Europe Enterprise Design Thinking Foundations
  - Terraform on IBM Cloud
- **Google**
  - BigQuery for Data Warehousing
  - Snowflake to BigQuery Migration
  - Google Cloud Computing Foundations: Cloud Computing Fundamentals

- Developing Applications with Cloud Run on Google Cloud: Fundamentals
- Hybrid & Multi Cloud: Deploy to Kubernetes
- Data Lake Modernization on Google Cloud: Cloud Data Fusion from Google
- **Microsoft**
  - Azure Fundamentals
  - Azure Data Fundamentals
- **Snowflake**
  - SnowPro Core
- **Cognitive Class:**
  - Docker Essentials: A Developer Introduction
  - Introduction to Containers, Kubernetes, and OpenShift V

## Personal skills:

### Programming and Tools:

- Google Cloud Platform: advanced
- Microsoft Azure: basic
- AWS: basic
- Oracle Cloud Infrastructure: basic
- Apache NiFi: intermediate
- Apache Airflow: intermediate
- Snowflake: advanced
- BigQuery: advanced
- SQL and PLSQL: advanced
- Python: intermediate
- Terraform: intermediate
- Java: basic
- PHP: basic

### Web pages:

- WordPress
- HTMLS, CSS, JavaScript and Php

### Additional skills:

- Data Warehouse & Data Lake Models: Data Vault, Star Schema, Snowflake, Data Lake and Lakehouse
- Structured, Semi - Structured and Unstructured data storing
- My expertise lies in bridging the gap between business and IT, effectively translating business requirements into technical solutions.

### Projects - non work-related:

- Final work in college: tracking users on my web page using cookies and Google analytics for CRM
- **My webpage:**  
Passionate about Data and Cloud Technologies: <https://karlo-kahlina-network.from.hr/>

### Languages:

**Croatian** mother tongue

#### English

- Reading: C1
- Writing: B2
- Listening and understanding: C1

#### German

- Reading C1
- Writing B2
- Listening and understanding C1