

Tom Kral

Data Engineer & Data Enthusiast

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 Assen, Drenthe



I am a data engineer with a strong interest in turning complex data into reliable insights. I enjoy approaching analytical problems in a structured way and building scalable data pipelines that support better and faster decision-making. With a background in Big Data and experience working with large volumes of transactional data, I value solutions that are both technically sound and practically useful. Outside of work, I enjoy tinkering with personal data projects at home, exploring new technologies, and experimenting with ideas that spark my curiosity.

WORK EXPERIENCES

Data Engineer

OCLC | 2022 - Present

OCLC builds technology that connects thousands of public libraries worldwide. Wise is one of OCLC's software products, designed to facilitate these connections through a shared library services platform. I am part of the data team that delivers an analytics pipeline for Business Intelligence purposes. As a Data Engineer, I build and maintain an ELT pipeline that retrieves data from multiple sources and transforms it into formats suitable for further analysis. I work extensively with large volumes of mostly transactional data, ensuring reliability and data quality across the pipeline.

IT Trainee Big Data

YoungCapital NEXT | 2022

YoungCapital NEXT offers an IT traineeship focused on early-career development. I completed a two-year program training as a junior Big Data / BI engineer, primarily gaining hands-on experience by working at OCLC while also completing certification courses. The traineeship began with a four-week general IT bootcamp, followed by specialized Big Data coursework.

GEO Registration Employee

Netherlands Enterprise Agency (RvO) | 2020 - 2021

RVO (Netherlands Enterprise Agency) supports entrepreneurs in sustainable and agricultural sectors through grants and regulatory guidance. I worked in the GEO team, verifying Dutch farmland boundaries for regulatory compliance. This involved reviewing disputes from farmers, analyzing aerial imagery and GIS data, and explaining regulatory decisions by phone to ensure clarity and transparency.

PROJECTS

Detecting birds with the Raspberry Pi

Python, SQL, Raspberry Pi

One of my hobbies is bird watching, but don't always have the time. With a Raspberry Pi and camera, I created a pipeline to detect birds that visit the feeder on my balcony. This information gives me more insight in the lives of urban birds.

Does Sentiment, Expressed by Tweets, Have an Effect on Vaccination Coverage With COVID-19 Vaccinations?

R, Sentiment Analysis, Linear Regression

This was my final project at the LOI. During my studies, the pandemic became a worldwide dilemma. Vaccinating is the answer, but opinions about this approach differ. I asked myself if these sentiments can be measured, and if they have an effect on the willingness of people to receive an injection.

SKILLS

Technical

Python
SQL
ELT/ETL Pipelines
Data Warehousing
Machine Learning

Professional

Effective communication
Critical Thinking
Patience
Asking Questions

EDUCATION

BSc Big Data Specialist

Leidse Onderwijsinstelling (LOI)
2019 - 2021
30/30 EC received

BSc Bioinformatics

Hanze University of Applied Sciences
2010 - 2017
181/240 EC received

CERTIFICATIONS

Certified Big Data Consultant
Arcitura Education (2022)

Agile Scrum
EXIN Foundation (2022)

PCEP – Certified Entry-Level
Python Programmer
Python Institute (2022)

LANGUAGES

Dutch (Native)
English (Professional)

INTERESTS

Reading
Bird Watching
Hiking