

Kamil Kleina

Software Engineer

Poland (+48) ***-***-*** public-resume@kleina.org Linkedin Website

---

Summary

Professional Projects Overview

Below is a list of all projects I worked on commercially, including a brief description of my role and the technologies I used in each project.

Projects

MedInsight AI **2024-02-01 - Present**
InfiniteDATA Services

MedInsight AI is a web platform designed for data scientists to analyze medical trial insights efficiently. It leverages AI to process and interpret data from various medical providers, including doctors, nurses, patients, and researchers, offering an interactive and data-driven decision-making environment.
Summary of Technologies Used:

- **Programming Languages:** Python, SQL
- **Frameworks:** FastAPI, Polars, SQLModel, Panel, PyTest, Pydantic, HTML, CSS
- **Cloud and Containerization:** AWS, Docker
- **CI/CD & Automation:** GitLab CI/CD
- **Version Control:** Git

MedData Onboarding **2022-12-01 - 2024-04-30**
InfiniteDATA Services

MedData Onboarding is a data engineering project focused on integrating medical data from various sources into a centralized data warehouse. The project utilizes advanced tools and frameworks for efficient data processing and seamless deployment, ensuring smooth data ingestion and transformation for medical analytics.
Summary of Technologies Used:

- **Programming Languages:** Python, SQL
- **Frameworks:** Polars, Pandas, PySpark
- **Cloud and Containerization:** AWS, AWS CDK, Docker
- **CI/CD & Automation:** GitLab CI/CD
- **Version Control:** Git

McKinsey Data Tools & Website **2022-04-01 - 2022-11-30**
SoftServe

The project focused on building an internal analytics platform using Snowflake as the primary data source. It included intuitive dashboards and analytical tools to transform raw data into insights. Robust REST APIs enabled seamless Snowflake integration with real-time updates. Deployed on a scalable cloud infrastructure, the solution ensured high performance and adaptability to business needs.
Summary of Technologies Used:

- **Programming Languages:** Python, SQL
- **Frameworks:** Pandas, Numpy, FastAPI, Openpyxl
- **Cloud and Containerization:** Snowflake, AWS, Docker
- **CI/CD & Automation:** GitHub Actions
- **Version Control:** Git

Autonomous Container for PostNL **2021-11-01 - 2022-03-01**
Arrow Electronics

The Autonomous Container for PostNL project involves developing a vision system that ensures parcel security and accurate recognition within an autonomous container. The system uses AI and computer vision to read QR codes, track parcels, and prevent theft. The project integrates various machine learning and computer vision tools, as well as cloud-based services, to ensure reliability and precision in parcel handling.

Summary of Technologies Used:

- **Programming Languages:** Python
- **Frameworks:** OpenCV, PyTorch, TensorFlow, MLflow, FastAPI, SQLAlchemy
- **Cloud and Containerization:** AWS Mechanical Turk, Nvidia Jetson
- **Data Management & Tools:** DVC, Pandas, Numpy, CVAT
- **Databases:** PostgreSQL
- **CI/CD & Automation:** PyTest
- **Version Control:** Git

Engine Failure Prediction **2021-08-01 - 2022-11-01**
Arrow Electronics

The Engine Failure Prediction Proof of Concept project focuses on developing models to monitor engine conditions and predict potential failures based on sensor data. The project uses machine learning techniques to analyze sensor readings and forecast engine issues before they occur, improving maintenance schedules and reducing downtime.

Summary of Technologies Used:

- **Programming Languages:** Python
- **Frameworks:** PyTorch, TensorFlow, MLflow
- **Data Management & Tools:** Pandas, Numpy
- **CI/CD & Automation:** PyTest
- **Version Control:** Git

City Happiness Model for Drammen **2021-03-01 - 2021-08-01**
Arrow Electronics

The City Happiness Model for Drammen project involves creating a model to calculate the happiness of people in the city based on various factors such as street occupancy, weather, and bike usage. The project utilizes cloud computing to scale the model and provides real-time insights into the city's mood and well-being.

Summary of Technologies Used:

- **Programming Languages:** Python
- **Frameworks:** TensorFlow, FastAPI
- **Data Management & Tools:** Pandas
- **Cloud and Containerization:** Azure
- **Databases:** PostgreSQL
- **Version Control:** Git

Alexa Voice Control for Amica **2020-11-01 - 2021-03-01**
Arrow Electronics

The Alexa Voice Control for Amica project involves integrating voice control functionality into RTV/AGD devices using Amazon Alexa. This project allows users to control home appliances through voice commands, enhancing the user experience with smart home technology.

Summary of Technologies Used:

- **Programming Languages:** Python
- **Cloud and Containerization:** AWS
- **Version Control:** Git

Intel RapidStorage Testing **2019-06-01 - 2019-09-30**
Intel Corporation

Intel RapidStorage Testing project focuses on testing and ensuring the functionality of Intel's RapidStorage technology, providing an optimized environment for data storage solutions. The project leverages modern tools and frameworks for automated testing and containerization to maintain high-quality standards.

Summary of Technologies Used:

- **Programming Languages:** Python
- **Frameworks:** PyTest
- **Cloud and Containerization:** Docker
- **Version Control:** Git