

ING. MAREK PIZNER

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SUMMARY

Data Scientist with a strong engineering foundation, passionate about transforming complex data into actionable insights. Experienced in building robust data pipelines, developing machine learning models, and deploying scalable backend solutions. Deep interest in finance and startups, leveraging data to inform decisions and drive business growth.

TECHNICAL SKILLS

Programming Languages: Python, SQL, Bash, JavaScript, L^AT_EX

Databases: BigQuery, AWS S3, AWS Athena, MySQL, Oracle, PostgreSQL (PostGIS), DuckDB, Elasticsearch, SQLite

Libraries/Frameworks: Pandas, Numpy, Scikit-learn, DVC, GeoPandas, Kepler.gl, Django, Scrapy, Requests

Cloud Platforms: AWS (S3, Glue, EC2, Athena, Kinesis, Lambda), Google Cloud (BigQuery, Compute Engine)

Tools: Docker, Git, Serverless Framework, Jupyter Notebooks, Papermill

Languages: Fluent in English

PROFESSIONAL EXPERIENCE

U. S. Steel Košice

Machine Learning Engineer

Košice, Slovakia – October 2025 – Present

- Developed a Django-based video processing pipeline for a belt granulometry system, enabling real-time analysis of conveyor belt material.
- Designed and trained a UNet segmentation model to detect and classify dust and ore particles from industrial video streams.
- Built end-to-end ML workflows: data annotation with Label Studio, model training with PyTorch, and production deployment on Kubernetes.
- Contributed to multiple other Django projects, delivering robust backend services and APIs across the engineering team.
- Tools: Python, Django, PyTorch, Docker, Kubernetes, Label Studio.

Biotron/Mobilyze/Zoniq

Senior Full-Stack Data Engineer

Remote – September 2019 – October 2025

- Designed and deployed automated data pipelines, processing millions of records across various sources.
- Performed extensive data wrangling and exploratory analysis to surface business insights.
- Built machine learning models from baseline to advanced, including feature engineering and hyperparameter tuning.
- Evaluated model performance, conducted residual analysis, and improved predictive accuracy via feature importance insights.
- Delivered reports and dashboards used directly by clients for decision-making.
- Tools: Python (pandas), DuckDB, BigQuery, AWS, Google Cloud, Jupyter Notebooks, DVC, Papermill, Docker, Kepler.gl.

Adastra

Consultant

Bratislava, Slovakia – March 2019 – September 2019

- Built interactive behavior systems for humanoid robots used in marketing and data collection.
- Programmed autonomous charging and movement algorithms.
- Integrated speech recognition and synthesis, enabling natural language interactions.
- Created integrated data sync systems using Google Sheets, SMS, and email APIs.

National Bank of Slovakia

Software Engineer

Bratislava, Slovakia – January 2018 – December 2018

- Led backend engineering for the AnaCredit reporting system.
- Developed secure, reliable modules for user data ingestion and validation.
- Implemented system monitoring, logging, and retry strategies to ensure high availability.
- Built an internal admin UI and RESTful API for system users.
- Stack: Python (Django), Oracle, Docker.

Aldobec Technologies, s.r.o.

Software Engineer

Bratislava, Slovakia – September 2017 – January 2018

- Developed embedded firmware for GSM/GPS tracking systems.
- Wrote backend services in C++ for real-time communication protocols.
- Delivered production-grade code using STM32 development tools.

EDUCATION

STU in Bratislava (2014 – 2017)

Faculty of Informatics and Information Technologies

- Bachelor of Computer Science
- Thesis: Process Scheduler in Real-Time Operating System

STU in Bratislava (2017 – 2019)

Faculty of Informatics and Information Technologies

- Master of Intelligent Software Systems
- Thesis: Community Detection in Networks