

# Wojciech Staniszewski

## Python Developer & Data Engineer

Motivated self-taught developer with hands-on experience in Python programming, data engineering, and machine learning. Passionate about building intelligent systems automating workflows, and solving real-world problems through technology. Seeking an opportunity to apply technical knowledge, collaborate in professional environments, and continue developing advanced programming and data science skills.

### INFORMATION

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LinkedIn: Available upon request  
GitHub: Available upon request

### COMPETENCIES

Software Development & Automation  
Machine Learning & Data Analysis  
System Architecture & Problem Solving  
3D Modeling & Technical Design  
Analytical Thinking & Continuous Learning

### LANGUAGES

Polaco – Nativo  
Español – Intermedio  
Inglés – Fluido  
Francés – Fluido

### HOBBIES

Programming  
Electronics  
Gym  
Cooking  
3D Printing

### Technical Development & Expertise

**Technical Skills**

**Programming Languages:** Python (Expert), SQL (Advanced), JavaScript/TypeScript (Intermediate), Bash/PowerShell  
**Data Engineering:** pandas, NumPy, Apache Spark, ETL Pipelines, Apache Airflow,  
**Web Development:** FastAPI, Flask, Django, RESTful API Design, Authentication,Rate Limiting  
**Machine Learning & AI:** XGBoost, RandomForest, TensorFlow/Keras, PyTorch, Reinforcement Learning (PPO, DQN), SHAP, Optuna  
**Databases:** PostgreSQL, SQLite, Redis, MongoDB, Query Optimization, Caching  
**DevOps & Infrastructure:** Docker, Kubernetes, Git/GitHub, AWS (EC2, S3, RDS, Lambda), Linux Administration  
**Monitoring & Testing:** pytest, Prometheus, Grafana, MLflow, CI/CD Pipelines  
**Task & Messaging Systems:** Celery, Redis Queue, Apache Kafka, Distributed Processing  
**Financial Systems:** MetaTrader 5, Alpaca API, Backtesting, Quantitative & Technical Analysis

**Selected Projects**

**Credit Risk Prediction Platform (Jan 2023 – Present)**

- Designed and deployed a full ML pipeline for financial risk assessment using XGBoost and RandomForest, achieving 89% accuracy.
- Integrated SHAP for model interpretability and automated retraining workflows with Optuna optimization.
- Built scalable FastAPI service handling 10,000+ daily predictions with <200ms latency.
- Deployed using Docker and PostgreSQL, with real-time monitoring dashboards.

**Reinforcement Learning Trading Bot (Mar 2023 – Present)**

- Developed PPO and DQN agents for portfolio management with realistic market simulation.
- Integrated MetaTrader 5 and Alpaca API for live data and execution.
- Achieved 23% annualized returns with <8% max drawdown via walk-forward backtesting.
- Implemented risk management (position sizing, stop-loss, hedging).

**Sales Analytics Platform (Jun 2022 – Dec 2022)**

- Built full-stack analytics platform processing 500K+ transactions/day.
- Developed ETL pipelines, PostgreSQL data warehouse,and interactive Dash/Plotly dashboards.
- Implemented predictive sales forecasting, CLV modeling, and anomaly detection systems.

**Email Automation Platform (Sep 2022 – Feb 2023)**

- Engineered marketing automation system using SendGrid and Twilio APIs.
- Built segmentation, A/B testing, and personalization engine using ML clustering.
- Implemented campaign analytics with ROI, conversion, and attribution tracking.

### Background & International Experience

Born in Poland with extensive international experience: 7 years in Poland, 6 years in France (Colmar), 1 year in Germany, and currently 3 years in Spain (Mutxamel, Alicante).These multicultural experiences strengthened communication skills, adaptability, and ability to collaborate in diverse professional environments. Currently working remotely on independent development projects and pursuing international collaboration opportunities in data science and AI development.