MARKUS SAIZEW

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EDUCATION

Master of Science Artificial Intelligence, IU International University of Applied Sciences — Feb 2022 – Present

Bachelor of Science Business Informatics, IBS IT & Business School Oldenburg — Aug 2018 - Jan 2022
Elected Student Representative

Computer Science Expert Subject Area: Software Development, IHK Oldenburg — Aug 2018 - Jul 2020

SKILLS

Programming Languages	Python, (T-)SQL, Go, JavaScript, TypeScript
Cloud Platforms	Microsoft Azure, Google Cloud Platform (GCP)
Data Technologies	Azure & GCP Data Platform, Apache Spark, Hadoop, Databricks, Apache Kafka, SSIS, Apache Iceberg, Apache Hive
MLOps	MLflow, TensorFlow, Keras, Apache Airflow, Docker, Kubernetes
Databases	Microsoft SQL Server, BigQuery, MongoDB
Data Visualization	Power BI, Looker Studio
Web Technologies	Node.js, React, Next.js, Flask, FastAPI
Techniques	Data Warehousing (Warehouse & Lake), Machine Learning, System Design, Web Development, Data Mining, Git
Languages	German (Native), English (Fluent), Russian (Conversational)

EXPERIENCE

Lead Business Intelligence Strategy & Development — Sep 2024 - Present
Popken Fashion Group

- **Developed a machine learning solution** to optimize procurement, **reducing inefficiencies and improving cost-effectiveness**.
- Designed an **AI-powered tool for clothing attribute recognition**, improving **product categorization and searchability by 30%**.
- Established an **advanced analytics and BI-layer** for **seamless API data extraction**, enabling **Reverse ETL without file exports**.
- **Reengineered raw data extraction**, replacing **Azure Data Factory with Go microservices**.
- Led the **migration from Node.js to Go**, enhancing **scalability, speed, and system stability**.
- **Led and mentored** a team of **six engineers and three analysts**, improving **team productivity and professional growth**.

Team Lead Business Intelligence Development — Feb 2024 - Aug 2024
Popken Fashion Group

- Designed and built a **scalable cloud-based Lakehouse**, processing **2TB of data daily and 600M+ rows**, with a **metadata-driven approach**, enabling **automatic pipeline generation**.
- Led the **on-premise to cloud migration**, cutting **infrastructure costs by 50%** and **boosting performance by 70%**.
- Built a **company-wide reporting infrastructure with Power BI**, enhancing **Self-Service BI and data-driven decision-making**.
- Created an **inventory management application**, visualizing stock levels and **reducing operational overhead**.
- Developed a **real-time streaming system** for **logistics order picking and analytics**.

- **Mentored and led junior engineers**, improving **onboarding and team performance**.

Business Intelligence Engineer Jan 2022 - Feb 2024

Popken Fashion Group

- **Managed and maintained** an **on-premise data warehouse** with **Microsoft SQL Server clustering**.
- Developed **50+ reports** in Microsoft Report Builder and designed **high-throughput ELT processes** using **SSIS and C#**.
- Built and maintained **Analysis Service OLAP cubes**, improving **reporting efficiency with DeltaMaster**.
- Developed an **internal monitoring web application** for **jobs and reports**.
- Engineered an **RBAC authentication system**, enhancing **security across 10+ internal web applications**.
- Created a **custom delta detection system**, streamlining **ETL operations and reducing data inconsistencies**.

Dual Study Student Business Informatics Aug 2018 - Jan 2022

Popken Fashion Group

- Developed and **optimized ETL processes** using **SSIS and C#**.
- Designed and implemented **web APIs using .NET Core and Blazor WebAssembly**, enhancing **performance and usability**.

RELEVANT PROJECTS

Cloud-Based Lakehouse: Designed a **cloud-native, metadata-driven lakehouse**, eliminating manual pipeline creation with an **auto-generating Apache Spark framework**. Built a **cloud-agnostic** system integrating with **Azure and GCP**. Used **Spark, Databricks, and Kafka** for **scalable data ingestion and processing**. Enabled **full automation and seamless data management** through centralized orchestration and metadata-driven administration.

In-House BI Tool: Developed an **internal BI platform** to **monitor and control data processes**. Built **real-time dashboards** tracking **ETL pipelines, streaming workflows, and API health**, with an **automated alert system**. Implemented **data quality monitoring** and a **centralized authentication system** using **Microsoft AD** for **role-based access control**. Developed using **React + TypeScript, Node.js, MongoDB, SQLite, and MSSQL Server**.

Delta Detection System: Built a **custom Delta Detection tool in C#** for **multi-source data extraction**. Developed a **REST API** supporting **CSV, Parquet, REST APIs, and relational databases**. Designed a **metadata-driven architecture** for extraction logic. Achieved **change data capture** with **custom tables, stored procedures, and row-level change detection** using **flagging and hashing techniques**.

PERSONAL PROJECTS

Live Broadcast Application: Developed a **real-time broadcast tool** using **React, WebRTC, and WebSockets in Go**. Enabled **multi-speaker channels** with **custom naming, admin controls, and advanced audio management** for live events.

Nonprofit Management Software: Built a **full-stack web app** for **nonprofit management** using **React + TypeScript, Node.js, and MongoDB**. Integrated **member, task, and event management** with **multi-calendar support** and a **room booking system**. Designed an **admin panel** for **user and content management**. Integrated **Firebase authentication with Google Organization**.