Curriculum Vitae Daniel David Kovacs

Software Architect | Lead Data Engineer
Winterthur, Switzerland (B permit)

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Professional Summary

Software Architect and Lead Data Engineer with over 10 years of experience in designing and implementing data and software solutions. Skilled in Software engineering, data modelling, and cloud platforms. Experienced in designing efficient pipelines, messaging architectures, managing complex projects across industries including insurance, finance, life sciences, and transportation.

Skills

Data Engineering: Python, Spark, Databricks, Kafka, Airflow, Polars, Pandas
Cloud Technologies: Azure (Databricks, Fn Apps, CosmosDB) AWS (EMR, S3, Lambda, EC2, EKS)
Software Development: Python, Java, Scala
Tools & Frameworks: FastAPI, Spring Boot, Event Sourcing, CosmosDB, Neo4J, Docker
Languages: Hungarian (Native), English (C2), German (C1)

Professional Experience

EPAM Systems, Hungary	May 2014	– Apr 2022	| Software Architect & Lead Data Engineer
EPAM Systems, Switzerland	Apr 2022	– Present	| Software Architect & Lead Data Engineer

LEAD DATA ENGINEER: FOR GLOBAL REINSURANCE LEADER
- Improved Azure Databricks ETL pipelines for financial data
- Enhanced onboarding processes and optimized existing data components
- Technologies: Databricks, Spark, Kafka, Python, Azure Data Factory, Azure SQL

SOLUTIONS ARCHITECT: DATA INGESTION PLATFORM FOR GLOBAL REINSURANCE LEADER
- Designed scalable Azure serverless architecture enabling automation across insurance domains
- Authored architecture documentation, securing project approval and successful delivery
- Technologies: Azure Function Apps, Event Grid, CosmosDB, Key Vault

LEAD DATA ENGINEER: MIGRATION & OPTIMIZATION FOR SWISS INSURER
- Migrated local Python pipelines to Azure ML, reducing model evaluation times by 90%
- Improved pipeline scalability via Pandas-to-Polars migration
- Technologies: Python, Azure ML, Azure Blob Storage, Docker

SOLUTIONS ARCHITECT: INDUSTRIAL COMPUTER VISION SOLUTION
- Revamped a monolithic system with a ZeroMQ-based processing pipeline, and messaging
- Technologies: Python, RabbitMQ, ZeroMQ, OpenCV, SQLAlchemy

LEAD DATA ENGINEER: CLOUD MIGRATION FOR HEALTH TECH LEADER
- Transitioned Hadoop pipelines from Cloudera to AWS EMR
- Technologies: Hadoop, AWS EMR, Java, Oozie

LEAD DATA ENGINEER: DATA PLATFORM FOR PHARMACEUTICAL R&D
- Created Python DSL for schema ingestion, reducing onboarding time
- Enhanced Airflow execution with async processing, cutting runtime costs
- Technologies: Python, Airflow, PostgreSQL, Neo4J

Education

- BSc in Software Engineering – Budapest University of Technology, 2013
- MSc in Architecture and Engineering – Budapest University of Technology, 2007
- Master in Solar Energy Engineering – Högskolan Dalarna, Sweden, 2004