

Mikkel Grønning Rydal

SENIOR AI & DATA PLATFORM ENGINEER

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“Turning complex data challenges into strategic opportunities through reliable, battle-tested platforms.”

Summary

Senior Data Engineer with 5+ years of experience architecting and scaling enterprise data platforms across retail, pharma, and ESG. Proven success in translating complex business requirements into compliant, scalable, and AI-ready architectures with strong focus on data governance and GDPR compliance that deliver measurable business value.

Currently driving the enterprise data platform build at JOE & THE JUICE, creating a foundation for IPO-grade financial reporting, comprehensive data governance frameworks, and self-service analytics. Expert in data modeling (Kimball, medallion, semantic layers), cloud-native platforms (AWS & Azure), role-based access control systems, and DataOps practices that enable automation, integration, and advanced AI/ML.

Ready to step into senior leadership roles to expand my impact in larger, more complex organizations, where I can mentor and grow teams, contribute to practice development, and deliver high-value digital transformations. This represents the next leap in my career: combining technical depth with strategic leadership.

Personal

Motivated by mentoring engineers and shaping architectural best practices in large organizations. Excited to take on greater responsibility in a consulting environment, contributing to practice development and societal impact through data.

Work Experience

JOE & THE JUICE

Copenhagen, Denmark

SENIOR AI & DATA PLATFORM ENGINEER

Oct. 2024 - Present

- Architected enterprise data platform from the ground up, enabling IPO-ready financial reporting for 2028 while powering global store expansion (400 → 1,000+). Delivered scalable ML foundations and self-service analytics through LLM-enabled semantic models - dbt MCP semantic layer.
- Reduced **dbt** runtime for main data mart from **1.5 hours to 3 minutes**, unlocking near real-time analytics.
- Implemented automated data ingestion via Snowpipe, S3, API webhooks, and **Fivetran** (migrating to Estuary), ensuring scalable pipelines.
- Delivered ML-ready architecture with **MLOps** framework (dbt + Snowflake + Python), improving demand forecasting accuracy by **50%** and generating **1M+ DKK** annual savings.
- Introduced self-service analytics through **dbt** MCP semantic layer integrated with LLMs, enabling natural language queries across business teams.
- Established comprehensive **role-based access control (RBAC)** system using **Terraform** and Azure AD, distinguishing access levels for developers, business analysts, etc.
- Mentored junior engineers and established governance frameworks to standardize data modeling and architecture practices.

Netlight

Copenhagen, Denmark

CONSULTANT - DATA ENGINEER

Sep. 2023 - Oct. 2024

- Migrated legacy on-prem SQL systems to **Snowflake**, delivering a self-service data mesh that enabled independent data product development.
- Automated ESG reporting workflows, saving **2 FTE** annually, and developed emissions targeting tools that passed Big Four audit scrutiny.
- Enabled cross-domain data access and analytics using Azure, **dbt**, Python, **Terraform**, Kubernetes, fostering a data-driven culture.

ADC (Amsterdam Data Collective)

Copenhagen, Denmark

CONSULTANT - DATA ENGINEER / DATA SCIENTIST

Aug. 2021 - Sep. 2023

- Developed metadata management platform for pharmaceutical clinical trials using **AWS**, **Elasticsearch**, and **FastAPI**, streamlining regulatory data retrieval.
- Engineered proof-of-concept clinical trial data platform with **AWS Glue**, **S3**, **CDK**, and **Step Functions**, enabling scalable data processing.
- Modernized production planning applications by migrating to **AWS Serverless (Lambda, Fargate)**, reducing infrastructure overhead and improving scalability.
- Built ML models with **Azure**, **MLFlow**, and **XGBoost** to predict product returns, reducing waste and improving customer satisfaction for a medtech client.

Novo Nordisk

Hillerød, Denmark

DATA SCIENTIST (PART-TIME STUDENT)

Apr. 2019 - Jun. 2021

- Designed ML models for predictive maintenance and image classification in pharma manufacturing, reducing downtime and improving quality assurance.
- Built **AWS**-based ML infrastructure with **S3**, **Lambda**, and **EC2**, enabling scalable data pipelines for production environments.

Certificates

- 2024 **AWS Certified Data Engineer – Associate**, Amazon Web Services (AWS)
- 2023 **AWS Certified Developer – Associate**, Amazon Web Services (AWS)
- 2022 **Microsoft Certified: Azure Data Scientist Associate**, Microsoft

Education

Technical University of Denmark (DTU)

MASTER OF SCIENCE - MATHEMATICAL MODELING AND COMPUTATION

- Specialized in mathematical modeling, computational methods, and data analysis techniques.
- Focused on advanced statistical methods, machine learning algorithms, and optimization techniques.

Lyngby, Denmark

Sep. 2019 - Jun. 2021

Technical University of Denmark (DTU)

BACHELOR OF SCIENCE - MATHEMATICS AND TECHNOLOGY

- Strong foundation in mathematics, statistics, and computational sciences.
- Coursework included linear algebra, calculus, probability theory, and programming fundamentals.

Lyngby, Denmark

Sep. 2016 - Jun. 2019

Technical University of Munich (TUM)

ERASMUS EXCHANGE PROGRAM

- International academic experience in advanced mathematical and computational methods.

Munich, Germany

Sep. 2018 - Feb. 2019