Ditte Daryna Sh

Data Engineer

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Data engineer for data that has outgrown its first design:

- Slow pipelines and queries: a geographical data pipeline made 50x faster, PostgreSQL 10x faster.
- A data model a product can grow on: 348 tables in 34 PostgreSQL schemas, kept whole by a CI gate.
- Data that earns its keep: a Python reporting system that raised quarterly software revenue by 400%.

Professional Work **Experience**

Platform and Data Engineer · Engineer ApS · Copenhagen, Denmark · Jan 2025–Present

- Engineered hourly electricity-consumption aggregation variants in Python, SQL and Bash + Jq, with the Python benchmark processing one 30-day JSONL dataset in 180ms.

Data Engineer · NextMariner ApS · Odense, Denmark · Nov 2025–Present

- Modeled the maritime domain into 348 normalized tables across 34 PostgreSQL schemas — professionals, companies, ships, jobs, reviews and the rest — with SMALLINT lookups and UUID v7 keys.
- Kept the schema honest across 1,022 migrations with a CI gate that builds the database both ways — a fresh install, and an install plus every migration — and fails when the two disagree.
- Built first-party product analytics in PostgreSQL — 47 functions over partitioned event tables that prune themselves — pseudonymised behind a rotating salt and gated on the visitor's consent.

Data Engineer · Utiligize ApS · Copenhagen, Denmark · Apr 2022–Dec 2024

- Recorded a 50x geographical data-pipeline improvement in the founder’s Utiligize work through SQL and data-model changes across PostgreSQL, MS SQL and Google Cloud BigQuery.
- Accelerated PostgreSQL performance by 10x via strategic indexing, partitioning, and query optimization, enhancing database efficiency for user, tenant, geospatial, and time-series electrical data.
- Improved geographical map application performance by 10x through strategic database transition from MSSQL to PostgreSQL, including the data cutover, optimizing processing and data security.

Data Engineer · Mappitall · Kyiv, Ukraine · Jan 2015–Mar 2022

- Developed a Data Analytics reporting system, increasing quarterly software revenue by 400% through Python-based PDF reports.

Technical Proficiency & **Key Skills**

Data Engineering SQL (PostgreSQL, MSSQL, BigQuery, SQLite, MySQL, MariaDB); ETL Processes; Stream Processing Frameworks; Data Quality Assurance Methods; Database Engineering; Data Management; Data Warehousing; Data Governance; Data Ingestion; Data Pipelines.
Programming Languages Bash (Bourne-Again SHell), PL/pgSQL (Procedural Language/PostgreSQL), Python (programming language), Transact-SQL (T-SQL), sh (Bourne shell), AppleScript, AWK, PowerShell, sed.
Geographical Data Tools & Services GDAL, PostGIS, ArcGIS, Mapbox, Leaflet.

Communication **Languages**

English (C1) · **Danish** (A2)