Ditte Daryna Sh

Software and Data Architect

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Software and data architect for systems that have to grow without a rewrite:

- Changes that break the product: an API contract generated from the database, guarded at every hop.
- Slow systems: a map application made 10x faster by moving it from MSSQL to PostgreSQL.
- Reworked an AWS estate by removing unused services, adjusting capacity and moving workloads to a different hosting setup.

Professional Work **Experience**

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

- Reworked an international client's infrastructure by removing unused services, adjusting capacity and moving workloads away from AWS. The founder reports a 10x reduction in cloud costs with no loss of productivity.
- Hosted the company's public services on a single-core 512 MB host — a git forge, a web server for seven domains, Tor, two alternative-protocol servers and intrusion banning — treating 464 MB of usable memory as the design constraint; backup automation is a separate implementation.

Platform Architect · NextMariner ApS · Odense, Denmark · Nov 2025–Present

- Architected a layered maritime platform separating a Next.js PWA frontend, a Go (Huma/Fiber) API, and a PostgreSQL function layer, keeping all business logic in the database.
- Generated the API contract outward from the database — OpenAPI, a 44,076-line typed TypeScript client, 61 mock handlers and the limits the UI enforces — with a guard at every hop that fails on drift.

System Architect · Utiligize ApS · Copenhagen, Denmark · Apr 2022–Dec 2024

- As one of the first hires, designed and built the entire core infrastructure and supporting processes from scratch for a green-energy SaaS startup, laying the foundation for rapid growth.
- Improved geographical map application performance by 10x through strategic database transition from MSSQL to PostgreSQL, including the data cutover, optimizing processing and data security.

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

- Overhauled internal processes, saving 8,000 hours by improving software architecture, systems, and scheduling efficiency.

Technical Proficiency & **Key Skills**

System Architecture Microservices, RESTful APIs.
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.
Cloud Computing and Cloud Infrastructure Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform, Hetzner.

Communication **Languages**

English (C1) · **Danish** (A2)