

WILLIAM SANDVEJ HANSEN

Data Engineer

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Capital Region of Denmark, Denmark william-sandvej-hansen grusinator



Summary

I have been working on various projects ranging from backend development to data engineering to data analysis. Mostly within engineering and energy sectors. I have a bit of GIS experience from various projects, well supported by my education in data processing within geospatial and remote sensing disciplines. Nowadays it's hard to not get a bit of cloud and devops under the skin as well. I am quite adaptive in terms of skills and competences, and not afraid to start out something that I might not know much about. In terms of personality, according to the "Insights" profile test, I am the "Helping Inspirer". creative, energetic and curious type. Sometimes a bit too quick and intuitive. But it has its qualities too.

EXPERIENCE

Data Engineer

Energinet

December 2022 – October 2023 Copenhagen, Denmark

- Developed a data project collecting massive amounts of data from the energy island in Denmark, from various providers.
- Performed quality control and delivered data to developers.
- Utilized Spark and Databricks for scalability and flexibility in handling various data formats.
- Used Sedona (GeoSpark) for geospatial data processing and storage in Delta Parquet format.
- Implemented spatial partitioning using geohashing for improved read performance.

Data Engineer

Ørsted

March 2020 – November 2022 Copenhagen, Denmark

- Developed a data validation component for data pipelines using Python and Pandas.
- Worked on data modeling to provide easy-to-understand and consume data for analytics tools.
- Developed data analytics and visualization tools using Python libraries such as Streamlit, Panel, Dash, and Bokeh.
- Used MS SQL Server, REST API, and Azure Service Bus for integration and data processing.
- Implemented a mock database using Python, SQLAlchemy, and SQLite for testing changes before production implementation.
- Used SAFE framework for project management and Azure DevOps, Docker, and Kubernetes for DevOps.

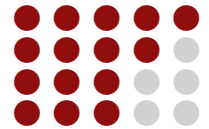
IT Consultant

Netcompany

November 2018 – November 2019 Copenhagen, Denmark

LANGUAGES

Python
SQL
JavaScript
C



SKILLS

Technologies

PostgreSQL Oracle Microsoft SQL Server
Kubernetes Git

Software Development

Full Stack Frontend Data Modeling
Data Transformation Data Science
Big Data Unit Testing

Databases

PostgreSQL Oracle Microsoft SQL Server
SQLite PostGIS

Development Tools

Kubernetes Atlassian Jira Git Containerization
CI/CD

Industries

Renewable Energy Counselling Electronics
Offshore Wind Energy

Methodologies

SAFE Scrum Agile Software Development

Platforms

.NET Linux Xamarin Microsoft Azure
AWS

Technologies

Machine Learning (ML) Docker Azure Data Factory
Flask REST Django Amazon S3
Spark Azure Service Bus Pandas (Python)
React Svelte

TRAITS

Motivator & Leader

- Worked on building custom IT solutions with multiple integrations using Oracle, Groovy, REST, and JavaScript.
 - Used Jira and Git with SCRUM for project management and version control.
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Software Developer

NIRAS

📅 September 2016 – March 2018 📍 Allerød, Denmark

- Developed geodata algorithms for data transformation, including lidar data processing and image classification.
- Developed plugins for QGIS using Qt and Python.
- Used C# and Postgres/PostGIS for developing models and processing geospatial data.

EDUCATION

Master of Engineering - MEng, Earth and Space Physics and Engineering

Danmarks Tekniske Universitet

📅 2014 – 2016

Bachelor of Engineering (BEng), Electrical and Electronics Engineering

Syddansk Universitet

📅 2010 – 2014

SKILL MATRIX

Working Area	Level	Last Used	Years of exp
Full Stack	Experienced	2022	3
Frontend	Experienced	2022	2
Data Modeling	Highly experienced	2022	4
Data Transformation	Highly experienced	2022	4
Data Science	Experienced	2022	2
Big Data		2023	1
Unit Testing	Highly experienced	2023	4
PostgreSQL	Experienced	2020	2
Oracle	Knowledgeable	2019	1
Microsoft SQL Server	Experienced	2023	2
SQLite	Highly experienced	2022	3