



Charles Nana Kwakye

Work permit: Belgian | **Date of birth:** 16/06/2002 | **Place of birth:** Konongo, Ghana | **Nationality:** Ghanaian |

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● ABOUT ME

As a Data & AI Professional with hands-on experience in multiple cloud service providers, I build end-to-end data solutions that power modern business decisions.

My work delivers value across the full data lifecycle, which includes engineering resilient data pipelines with Databricks, analysing data and crafting intuitive visualizations in Qlik Sense that make complex information accessible, and integrating AI like Large Language Model to solve specific engineering challenges like a lack of documentation, as shown on my portfolio at [<https://www.charlesnanakwakye.works/>]

● WORK EXPERIENCE

DATA ENGINEERING INTERNSHIP – OESON – 11/2025 – 02/2026 – INDORE, INDIA

- Took full ownership of the project lifecycle from evaluating business use cases and defining objectives to delivering a final presentation that clearly communicated key findings to stakeholders.
- Built a Medallion ETL pipeline in Databricks using PySpark, processing over 2 million rows of raw energy data into optimized Delta Lake tables.
- Connected the data to Microsoft Fabric to build a Power BI dashboard, writing custom DAX measures that revealed a 17.9% variance in weekend consumption and identified daily peak load hours.

DATA & AI ENGINEERING INTERNSHIP – VRT – 02/2024 – 05/2024 – BRUSSELS, BELGIUM

- Conducted an in-depth feasibility study on leveraging advanced large language models (LLMs) for automating the generation of DBT (Data Build Tool) documentation, addressing VRT's undocumented DBT codebase
- Collaborated with data engineers to iteratively refine my solution, I then integrated this feedback to enhance the accuracy and usability of the generated documentation
- Utilized advanced NLP techniques and tools, such as transformer architectures, embeddings and tokenization, to optimize the model's output and relevance to VRT's dbt documentation

WAREHOUSE ORDER PICKER – BLECKMAN – 11/2021 – 01/2022 – GROBENDONK, BELGIUM

- Gained hands-on experience in supply chain operations, ensuring accuracy in order processing for fashion logistics.
- Met strict productivity KPIs (240+ orders/2 hours), demonstrating reliability and process adherence.
- With patience and attention to detail, I trained two new workers on how to use the scanner system and pick orders accurately

PERSONAL ASSISTANT – CYBERCITY ICAFE – 06/2017 – 03/2018 – KONONGO, GHANA

- I helped students who were less familiar with the internet and computer applications to navigate and utilize these tools effectively. This included teaching them how to browse the web, use email, and other essential computer skills
- I used a token generator to create voucher tokens that were sold to customers. These tokens allowed access to internet
- I helped customers with software-related issues, such as installing antivirus software and performing operating system installations. I ensured that their computers were running smoothly and securely

● EDUCATION AND TRAINING

09/2021 – 06/2025 Geel, Belgium

BACHELORS APPLIED COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE Thomas More University

Website <https://thomasmore.be/en> | **Field of study** Computer Science | **Level in EQF** EQF level 6

● LANGUAGE SKILLS

Mother tongue(s): **ENGLISH** | **TWI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
DUTCH	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● SKILLS

data engineering | business intelligence | Data Cleaning, Data Warehousing, Data Modeling | Familiar with Azure Environment (Databricks and Datalake) | SQL | PySpark Python | CI /CD

● CERTIFICATIONS

Microsoft, 20/01/2026

Microsoft Certified: Fabric Data Engineer Associate

- Implement and manage data warehouse and analytics solution
- Ingest and transform data
- Monitor and optimize an analytics solution

Mode of learning: Online

Link <https://learn.microsoft.com/en-gb/users/charlesnanakwakye-5551/credentials/3eaf57fe4fdb60a>

Qlik, 02/07/2025

Qlik Sense Business Analyst Qualification

- Earners of this Qlik product qualification have demonstrated fundamental-level and applied knowledge with the Qlik Sense product in the role of Business Analyst.

Mode of learning: Online

Link <https://iltlearning.qlik.com/badges/badge.php?hash=1fac9bdf3bc9e6fbde7e8e0502d33aede98305ea>

Coursera, 10/02/2024

Microsoft Azure Databricks for Data Engineering

- How to work with large amounts of data from multiple sources in different raw formats
- How to create production workloads on Azure Databricks with Azure Data Factory
- How to build and query a Delta Lake
- How to perform data transformations in DataFrame. How to understand the architecture of an Azure Databricks Spark Cluster and Spark Jobs

Mode of learning: Blended

Link https://www.coursera.org/account/accomplishments/verify/RYNUV4KB7P8U?utm_source=link&utm_medium=certificate&utm_content=cert_image&utm_campaign=sharing_cta&utm_product=course

Microsoft, 11/08/2025

Microsoft Azure Data Fundamentals

- Describe core data concepts
- Identify considerations for relational data on Azure
- Describe considerations for working with non-relational data on Azure
- Describe an analytics workload on Azure

Mode of learning: Online

Link <https://learn.microsoft.com/en-us/users/charlesnanakwakye-5551/credentials/24ba9f6ec63763df>

PROJECTS

E-Commerce Data Lakehouse: Production-Grade Data Engineering & Analytics Solution

Technologies: Azure Databricks, Delta Lake, PySpark, Unity Catalog, ADLS Gen2, Azure Key Vault

- Architected a production data pipeline using a control table pattern to transform 100k+ ecommerce records, supporting both historical backfills and incremental monthly loads.
- Developed an analytics dashboard to provide real-time visibility into revenue patterns and key performance indicators (KPIs) and created customer segmentation visualizations based on business definitions.
- Designed a hybrid star schema with bridge tables to model complex many-to-many payment relationships and delivered a cost-effective cloud architecture and auto-termination controls to adhere to strict budget constraints.

Airbnb Accommodation Insights: Interactive Data Journalism Platform

Technologies: Qlik Sense, JavaScript, HTML, CSS, StarUML

- Developed a data journalism web application providing insights into Airbnb listings across Antwerp, Brussels, and Ghent to assist tourists in finding suitable accommodations
- Created interactive visualizations in Qlik Sense showcasing average nightly rates, property types, and seasonal demand patterns, then built a responsive frontend with HTML, CSS, and JavaScript that integrates these dashboards with user-friendly filters
- Transformed complex accommodation data into easy-to-understand stories through data journalism techniques and collaborated with Epic Data employee to validate the design and enhance user experience

Data Modelling Project

Technologies: Star UML, Axure RP, ERD Design, Git

- Worked together with three other students to model a Relational Data Model (RDM) and Entity Relationship Diagram (ERD) for a Laravel application designed to help a private household schedule tasks and manage their documents and invoices
- Analyzed and interpreted the requirements provided by three coordinators to create an accurate and comprehensive ERD. This involved understanding the needs of the client and translating them into a functional design screen using Axure RP
- Created use cases and screens as part of the analysis and design process which helped visualize the functionality and user interface of the application.

Belgium Insurance Claim Severity AI Project

Technologies: MLflow, Hugging Face, XGBoost, Scikit-learn, Streamlit Cloud

- Built a production-ready ML pipeline to predict claim severity, utilizing MLflow for experiment tracking.
- Implemented Model Versioning by integrating Hugging Face Hub to store and retrieve trained artifacts.
- Deployed the optimized Random Forest model as an interactive web application on Streamlit Cloud.

Business Process Analysis and Modeling: Hire-to-Retire Optimization

- Conducted structured stakeholder interviews with key client stakeholders to extract knowledge regarding their HR lifecycle processes (Hire to Retire).
- Processed documentation by mapping the workflow using BPMN standards, documenting the flow from recruitment to retirement.

- Analysed the gap and identified bottlenecks in the manual process and proposed IT-driven improvements to increase efficiency and data transparency.
- Reported and delivered a modeling report outlining process dependencies and opportunities for documentation and digitization.

● **DRIVING LICENCE**

Driving Licence: B

● **HIRING ELIGIBILITY**

Working Eligibility

Complete permission to work in Belgium

Individuele Beroepsopleiding (IBO) or Traineeship Eligibility

I am open to an **Individuele Beroepsopleiding (IBO)** contract via VDAB to facilitate training and onboarding.