

# BEKALUE KOBRO

Authorized to work in the US  
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## SKILLS

- Python - AWS - Database Systems  
- SQL - REST APIs - Cloud Automation  
- Pandas - Airflow - Power Systems  
- PySpark - PowerBI - SCADA Control

## SUMMARY

- Strong communication, Eager to learn & Organized.  
- 5+ years of experience in Programming and Back-end Dev.  
- Some experience in Hydro-Power Plant and SCADA.  
- Expert in Data Integration, Transformation & Analysis.

## EDUCATION

MS, Computer Science — GPA: 3.8 / 4.0 North Dakota State University, USA | 05/2025  
MS, Electrical Engineering — GPA: 3.7 / 4.0 University of Rostock, Germany | 03/2022  
BS, Electrical Engineering (Power) — GPA: 3.4 / 4.0 Jimma University, Ethiopia | 07/2015

## EXPERIENCE

### Engineering Intern

Minneapolis, MN

Xcel Energy

05/2025 – Present

- Itron Gen5 Smart meters, data integration and analysis, energy efficiency.

### Graduate Teaching Assistant

Fargo, ND

North Dakota State University

02/2023 – 05/2025

- Created teaching artifacts and YouTube tutorials on SQL, MS Access, & Excel earning 20K+ views.

### Data Engineering Intern

Regensburg, Germany

University of Regensburg

05/2022 – 01/2023

- Automated ETL workflows using Airflow to schedule and manage tasks across multiple data pipelines.
- Enhanced SQL query performance 2X by optimizing complex joins, indexing strategies, and partitioning.
- Engineered ETL pipelines to integrate data from diverse sources, including APIs, databases, and flat files.

### Electrical Engineer

Addis Ababa, Ethiopia

General Power PLC

09/2015 – 08/2018

- Designed, installed and tested electrical distribution/control systems & HVAC with 100% safety compliance.

### Engineering Intern

Jimma, Ethiopia

Gibe-I HydroPower Plant

03/2014 – 07/2014

- Operated hydroelectric power plant using SCADA to monitor and control power generation.

## PROJECTS

### Electrical Meter Reading Data Wrangling | Python, Azure Databricks, Azure Object Storage

Fall/2024

- Transformed messy (pipe)-separated ASCII data from electrical meters, into structured CSV and Parquet.
- Validated meter data keeping accurate readings & pushed results to Cloud Storage programmatically.

### LLM ChatBot - Client/Server Web Application | Flask, LangChain, Ollama, LLAMA2,

Spring/2025

- Implemented context control for follow-up questions & prompt engineering to optimize LLM responses.
- Developed a Flask web app extracting JSON from LLMs via RegEx & visualized insights with Plotly charts.

### Big Data Analysis | Python, Pandas, Matplotlib, BeautifulSoup

Fall/2022

- Analyzed 3.2 Million files, extracting insights on resource usage patterns using resource identifiers (RRIDs).
- Cross-referenced RRIDs against online knowledge base, validating data accuracy and completeness.

## AWS CERTIFICATIONS

Solutions Architect – Associate (09/2024) · Cloud Practitioner (06/2024) · Data Engineer - Associate (Scheduled) ·