

# Bongo Kosa

Data Scientist, Data Engineer, and Technical Mentor

Detailed record of experience, credentials, project work, and public learning.

Debrecen, Hungary · [bongokosa@gmail.com](mailto:bongokosa@gmail.com) · +27 73 590 7659 · [linkedin.com/in/bongo-seakhoea](https://linkedin.com/in/bongo-seakhoea)  
· [github.com/Bongo-Seakhoea](https://github.com/Bongo-Seakhoea)

## PROFILE

Bongo Kosa is a data scientist, data engineer, and technical mentor with remote experience spanning production data workflows, analytics consulting, machine-learning delivery, and learner support. His work combines Python, SQL, cloud platforms, and clear stakeholder communication across commercial, educational, and mentoring contexts, alongside ongoing BSc study in Engineering Management at the University of Debrecen and completed University of Colorado Boulder coursework via Coursera.

## TECHNICAL TOOLKIT

**Languages** Python, SQL, R

### Data & ML

Pandas, NumPy, SciPy, Scikit-learn, TensorFlow, PyTorch, Apache Spark

### Cloud & Delivery

Google Cloud Platform, AWS, Docker, Git, GitHub, Streamlit, Flask

### Analytics & BI

Tableau, Power BI, Looker, Matplotlib, Seaborn, Plotly

### Databases

PostgreSQL, MySQL, MongoDB, SQLite, Oracle, Microsoft SQL Server, Amazon RDS

## PROFESSIONAL EXPERIENCE

### Data Engineering Scientist | MetaPOS

Cape Town, South Africa (Remote)

September 2023 - Present

- Contributes to data engineering work that improves data reliability, operational reporting, and decision support within a retail point-of-sale environment.
- Works with Python, SQL, and data modeling to support data pipelines and analytics workflows.
- Improves accuracy and efficiency in transaction, inventory, and sales-related data processes.
- Collaborates across functions to strengthen data-driven operational decisions.

### Learning Specialist | 2U / edX

Cape Town, South Africa (Remote)

October 2023 - June 2025

- Supported boot camp learners through technical tutoring, platform guidance, homework assessment, and empathetic remote education delivery.
- Tutored students in Git, GitHub, FinTech, Python, and machine learning topics.
- Answered learner questions on the AskBCS platform and graded work against structured rubrics.
- Helped sustain a supportive learning environment built on clarity, encouragement, and technical precision.

### Superagent Mentor | Blossom Academy

Greater Accra Region, Ghana (Remote)

November 2024 - Present

- Mentors emerging talent pursuing paid freelance work and stronger market readiness.
- Guides mentees toward paid freelancing opportunities and stronger positioning.
- Supports professional confidence, direction, and practical momentum.

## Data Analyst Consultant | 1Eight

New South Wales, Australia (Remote)

December 2022 - April 2023

- Delivered analytical insight and recommendations from complex datasets for client-facing business contexts.
- Used SQL, GCP, Streamlit, visualization, and statistical analysis to interpret business data.
- Turned technical outputs into actionable recommendations for stakeholders.

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## Freelance Data Scientist | Turing.com

Remote

May 2022 - September 2023

- Delivered freelance analytics and data science work across varied remote projects and client needs.
- Worked across Python, SQL, visualization, and statistical analysis.
- Contributed independently to data-driven solutions across multiple project contexts.

## SELECTED PROJECTS

### MetaPOS App Data Management

Professional contribution

Supported retail point-of-sale data management work aimed at improving transaction flow, inventory visibility, sales reporting, and data accuracy.

**Tech:** GCP, Python, SQL

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### FxPM 1.4 - Forex Portfolio Manager

Full-stack trading platform

Optimized forex portfolio management system with a Python backend, JavaScript frontend, and integrated analytics dashboard. Manages live signal trading workflows, position tracking, and risk controls.

**Tech:** Python, JavaScript, HTML/CSS, Trading Systems

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### MQL5 Expert Advisor

Algorithmic trading (community project)

Community-driven expert advisor for automated forex trading on the MetaTrader 5 platform. Open-source collaboration for strategy development and backtesting.

**Tech:** MQL5, Jupyter, Algorithmic Trading, MT5

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### Streamlit-Based Recommender System

Applied machine learning project

Collaborative and content-based filtering recommender system with a Streamlit web interface for interactive exploration and AWS deployment.

**Tech:** Python, SQL, Streamlit, AWS

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### Regression Predict API

Model deployment

Flask-based REST API serving a trained regression model for energy load shortfall prediction, demonstrating end-to-end ML deployment.

**Tech:** Python, Flask, API Design, Model Serving

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### OpenAI Trader Experiment

AI-powered trading research

Experimental integration of OpenAI language models with trading strategy logic to explore AI-assisted market analysis and decision support.

**Tech:** Python, OpenAI API, Jupyter, Trading

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## EDUCATION

### BSc in Engineering Management

University of Debrecen | Debrecen, Hungary

September 2025 - Present

- Undergraduate study combining engineering fundamentals with management principles and systems thinking.
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## Data Science Certificate

Explore AI Academy | Cape Town, South Africa

January 2022 - December 2022

- Completed immersive data science training with an 85 percent result.

## UNIVERSITY OF COLORADO BOULDER COURSEWORK VIA COURSERA

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**Data Science Foundations: Statistical Inference Specialization** University of Colorado Boulder via Coursera | April 2023

Statistical Inference and Hypothesis Testing in Data Science Applications; Probability Foundations for Data Science and AI; Statistical Estimation for Data Science and AI

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**Data Mining Methods** University of Colorado Boulder via Coursera | September 2024

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**Data Mining Pipeline** University of Colorado Boulder via Coursera | September 2024

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## CREDENTIALS

### CURRENT CLOUD CREDENTIALS

**Associate Cloud Engineer Certification** Google Cloud | Active through 1 March 2027 Issued 1 March 2024 | Expires 1 March 2027

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**Cloud Digital Leader Certification** Google Cloud | Active through 12 January 2027

Issued 12 January 2024 | Expires 12 January 2027

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### SELECTED PROFESSIONAL CREDENTIALS

**Professional Data Scientist** DataCamp | Professional credential Issued Public credential available

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**Advanced Data Science Specialization** IBM via Coursera | Completed specialization Issued 30 August 2021

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**Applied Data Science Lab** WorldQuant University | Completed program Issued 31 December 2022

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**IBM Data Science Professional Certificate** IBM via Coursera | Professional certificate Issued November 2021

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**Google Data Analytics Professional Certificate** Google via Coursera | Professional certificate Issued June 2022

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**IBM Cybersecurity Analyst Professional Certificate** IBM via Coursera | Foundational cybersecurity credential Issued July 2020

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**Introduction to Data Science Specialization** IBM via Coursera | Completed specialization Issued June 2021

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### ADDITIONAL SPECIALIZATIONS

**IT Fundamentals for Cybersecurity Specialization** IBM via Coursera | Completed specialization Issued July 2020

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**Security Analyst Fundamentals Specialization** IBM via Coursera | Completed specialization Issued July 2020

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### CREDENTIAL HISTORY

**AWS Certified Cloud Practitioner** Amazon Web Services | Historical credential valid through 7 November 2024

Issued 7 November 2021 | Expires 7 November 2024

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### ADDITIONAL LEARNING

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**Visualizing Filters of a CNN using TensorFlow** Coursera | May 2023

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**Create Your First Python Program From UST** Coursera | May 2023

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**Google Data Analytics Capstone: Complete a Case Study** Google via Coursera | June 2022

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**Data Analysis with R Programming** Google via Coursera | June 2022

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**Statistical Estimation for Data Science and AI** University of Colorado Boulder via Coursera | June 2022

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