

# Bob Philip Aila

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## About

Experienced Data Scientist and Analytics Specialist with over 4 years of experience in advanced analytics, business intelligence, and systems implementation, with strong expertise in Python, SQL, Power BI, and predictive modeling. Experienced in building machine learning models, experimentation (A/B testing), and optimization projects that drive measurable business impact. Proven ability to work remotely across multidisciplinary teams, transforming raw data into actionable insights to enhance user experience, operational efficiency, and decision-making in fast-paced environments with a Bachelor's degree in Mathematics and Computer Science and currently pursuing a Master's in Mathematical Sciences (Data Science) with AIMS Rwanda

## Skills and Qualifications

- **Data Analytics & Business Intelligence:** SQL (PostgreSQL, MSSQL, MySQL, BigQuery), Power BI, Tableau, Google Looker Studio, data visualization, and business intelligence reporting.
- **Supply Chain Systems & ERP Management:** SAP, Inventory Management, Oracle PL/SQL, SQL Server, and data warehousing.
- **Programming & Machine Learning:** Applied data science using Python (Pandas, NumPy, Scikit-learn, PyTorch), R, Jupyter Notebook, predictive modeling, A/B testing, time series forecasting, geospatial analytics, uplift modeling.
- **Business Intelligence:** Development and maintenance of interactive dashboards and automated reporting tools for real-time decision-making.
- **Data Visualization:** Proficient in SQL, Python, Power BI, Tableau, Google Looker Studio, and vast technical skills in Bigdata and BigQuery data warehouse for actionable insights.
- **ETL & Automation:** Data manipulation, cleaning, feature engineering, dimensional modeling, ETL pipelines, workflow automation, and advanced statistical methods for experimental design and model evaluation.
- **Cloud & Infrastructure:** Google Cloud Platform, AWS, and Azure.
- **ERP & Systems Integration:** SAP, Odoo, ERPLY data warehousing and inventory systems, and financial transaction analytics.
- **Soft Skills:** Critical thinking, problem-solving, confident analytical skills, communication skills, and teamwork.
- **Web Development:** React, JavaScript, PHP, Angular, Python scripting product with intuitive automation, and automation techniques to streamline reporting processes.
- **Big Data Tools:** Hadoop, Jupyter Notebook, PyTorch, Expertise in advanced formulas, pivot tables, and macros for efficient data analysis and reporting.

## **Education**

### **Master of Science in Mathematical Sciences (Data Science)**

African Institute for Mathematical Sciences (AIMS), Rwanda

Expected Completion: 2026

### **Bachelor of Science in Mathematics and Computer Science**

Maseno University

September 2018 – June 2022

### **High School/Secondary Certificates**

Sawagongo High School

January 2014 to November 2017

## **Certifications**

- Certificate in Business Data Management – Industry Immersion Africa (August 2025)
- Google Cloud Professional Data Engineer – Google Cloud (March 2025)
- Cisco Certified Network Associate Security – Cisco Networking Academy (May 2020 – October 2021)

## **Work Experience**

### **SAP Data Administrator and Operations Supervisor ( Remote )**

*One Acre Fund* | August 2022 – Present

- Developed financial models and ETL pipelines that streamlined data reporting and increased data availability to the department's leadership by 40%.
- Built interactive dashboards in Power BI and BigQuery, providing real-time visibility into key business metrics and improving decision-making efficiency by 30%.
- Supported budgeting and reconciliation processes, collaborating with cross-functional teams to ensure accurate financial forecasting and alignment with organizational goals.
- Created automated reporting systems to track operational performance, reducing manual input errors by 20%.
- Engineered predictive models for the logistics department in monitoring and managing fleet services, reducing cost through route optimizations and weigh balancing to ensure maximum utilization of space and resources.
- Prepared periodic financial and performance reports, optimizing workflows and ensuring compliance with internal reporting standards.
- Key Achievements:
  - Reduced data processing time by 40% by implementing advanced automation and validations.
  - Support the Financial Advisory Services team (my team) in SAP transactions (PO, GRPO, Goods Issues, and Goods Receipt) QC and corrections to ensure accurate financial planning and reporting to Supply

Chain operations on PO and GRPO bookings and progress through Kissflow service request for process documentation.

- Extract, analyze, and reconcile inventory and transaction data from SAP to generate periodic financial reports for leadership, aiding in budgeting and forecasting through dashboards and reports using tools like Power BI and Excel to provide actionable insights into inventory trends, operational efficiency, and cost optimization.
- Identify process inefficiencies and implement data-driven solutions to optimize inventory management, reduce variances, and ensure compliance with financial reporting standards improve data accuracy, and maintain alignment with organizational goals, including enhancing SAP batch tracking and inventory audits.

## **ICT Technical Analyst**

*ICT Authority, Kisumu* | September 2021 – December 2023

- Collaborated with engineering and data teams to **develop database solutions** supporting real-time data access and analytics across departments.
- Created Power BI dashboards and SQL reports that improved organizational visibility into performance metrics.
- Enhanced system uptime and integrity through regular maintenance, troubleshooting, and infrastructure optimization.
- Implemented user-centered IT solutions and provided end-to-end support for data-driven decision systems.

## **Remote Software Systems Engineer and Web Developer**

*Shaqshan Freight Limited (Part-Time)* | November 2018 – January 2022

- Led the development of the company's web systems and dashboards, enabling data-driven financial insights and automation.
- Built **forecasting and predictive analytics models** for revenue and operations, improving accuracy and planning efficiency by 20%.
- Conducted **A/B testing** on marketing and operational features to identify optimal strategies for customer engagement.
- Created an automated file management system transitioning the firm to a paperless process, reducing operational costs by 20%.
- Designed data visualization dashboards to inform business and marketing decisions, increasing client retention and satisfaction.
- Optimized budgeting and revenue forecasting processes, streamlining financial decision-making.

## **Social Profiles**

**LinkedIn:** <https://www.linkedin.com/in/bob-philip-54102a162/>

**GitHub:** <https://github.com/bob-aila/>

## **Languages**

English | Kiswahili | French

## **References**

Available on request