

# Pius Odhiambo, Data Scientist

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## SUMMARY

Results-oriented Data Scientist with extensive experience in designing and implementing data-driven solutions. Proven expertise in advanced analytics utilizing Advanced Excel functions, Python, SQL, Tableau, Power BI and other tools to derive actionable insights. Strong leadership skills, having mentored junior data scientists and led educational initiatives in the field. Proficient in cloud technologies, with substantial experience in development, evaluation and deployment of machine learning models and managing data integrations. Committed to driving innovation and promoting best practices in data science to achieve enterprise goals.

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## WORK EXPERIENCE

02/2022 – Present

### Senior Data Scientist (Remote), Blue Nile Analytica

Nairobi, Kenya

- Conceptualized and crafted an extensive Data Science curriculum in collaboration with various stakeholders.
- Strategically branded and promoted the Data Science Mentorship program to draw in participants.
- Guided junior Data Scientists through mentoring, fostering their engagement in global Data Science hackathons.
- Served as the primary instructor for Data Science courses, providing expert-level training.
- Secured vital teaching and learning materials to improve educational outcomes.
- Participated in media interviews to inform the public about the applications of Data Science.
- Oversaw a varied team of more than 10 technical staff in developing data-oriented applications for an online education platform.
- Conducted intricate data analyses using Excel, SQL, and Python, visualizing data on Plotly and Power BI dashboards.
- Created Data Science solutions leveraging both on-premises setups and Microsoft Azure Cloud Computing platforms.

05/2024 – 08/2024

### Research Data Scientist, DOD HBCU MI 2024 SRIP

Shalimar, FL, USA

- Conducted research on *Drosophila melanogaster*, focusing on its evasion of predators, geographical navigation for egg-laying, and execution of advanced aerial maneuvers using minimal energy.
- Utilized the flybrain lab to investigate the logic functionalities of the fruit fly, informing the design of neural networks to emulate state-of-the-art Unmanned Autonomous Vehicles (UAVs).
- Performed complex data analyses with Excel, SQL, and Python, presenting results through visualizations on Plotly and Power BI dashboards.
- Executed advanced data analysis using NoSQL databases to derive actionable insights.
- Designed neural network circuitry for the fruit fly utilizing flyvision technology.

08/2020 – 01/2022

**Sr. Quantitative Analyst, Exelon**

Chicago, IL, USA

- Identified and mitigated product vulnerabilities by analyzing inactive energy Power Meters that showed consumption without Service Agreements, proposing and implementing process improvements that eliminated revenue losses.
- Conducted detailed complex data analyses using Excel, SQL, and Python, visualizing findings via Plotly and Power BI dashboards.
- Completed descriptive, prescriptive, and predictive data analyses for price control and payment models leveraging Python.
- Designed a transformative process that converted data into value by effectively managing data, conducting advanced analytics, generating insights, and deploying action plans to achieve desired outcomes.
- Automated various processes using Python, Power Automate, and Windows Task Scheduler.
- Developed Machine Learning algorithms to forecast customer payment risks during the moratorium period.
- Designed and deployed machine learning models to Azure for enhanced data integration.
- Implemented comprehensive database backup restoration and management tasks.
- Executed SQL Server querying, developing necessary database objects (views, stored procedures, functions).
- Performed advanced data analyses using NoSQL databases to bolster customer operations.

05/2019 – 07/2020

**Research Assistant, Data Science & Cybersecurity, Bowie State University**

Bowie, MD, USA

- Trained undergraduate SURJ research students in Data Analytics, Machine Learning, and Visualization tools.
- Assisted students in researching cyber-attacks on SCADA systems and Cyber Threat Intelligence on the darknet.
- Collaborated with a team of student researchers to build and simulate a small SCADA system for a dam.
- Utilized data analytic tools, including Weka, advanced Excel functions, R programming, and Python in the research initiatives.
- Designed and implemented Machine Learning and Artificial Intelligence algorithms within SCADA systems research.
- Developed an innovative algorithm for credit card fraud detection.
- Led a group of 8 developers organized into two teams focused on Data Science and Cybersecurity.

04/2013 – 04/2019

**Business / Data Analyst, SecuEdge LLC**

Alexandria, VA, USA

- Designed and constructed interactive dashboards and reports to facilitate data-driven decision-making by top management.
- Executed data visualization projects using Tableau, Python, and advanced Excel functions.
- Conducted predictive analysis employing Python to forecast trends.
- Performed SQL scripting to create essential database components, including tables, indexes, views, functions, sequences, and procedures.
- Engineered and deployed analytical models on Azure cloud infrastructure.
- Implemented comprehensive database backup restoration and management tasks.
- Executed SQL Server querying while developing necessary database objects (views, stored procedures, functions).
- Managed an end-to-end data migration project utilizing SQL Server Management Studio and SSIS.
- Conducted advanced data analyses using MongoDB and other NoSQL databases to enhance customer operations.

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## EDUCATION

08/2019 – 05/2024	<b>Bowie State University</b> Master of Science, Computer Science (Artificial Intelligence & Machine Learning)	Bowie, MD, USA
06/2022 – 03/2023	<b>University of Texas at Austin</b> Postgraduate Program, Artificial Intelligence & Machine Learning (PGP AIML)	Austin, TX, USA
05/2014 – 05/2017	<b>University of Maryland Global Campus</b> Master of Science, Information Technology (Database Systems Technology)	Adelphi, MD, USA
10/1996 – 10/2000	<b>Kenyatta University</b> Bachelor of Science, Education (Mathematics / Physics)	Nairobi, Kenya

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## SKILLS

Advanced Excel functions	Python
SQL scripting	Tableau
Power BI	R
C++	Plotly
Oracle Data Modeller	ETL tools
Natural Language Processing (NLP) Libraries	Machine Learning Algorithms
Oracle Database Administration	Data Mining
Project Management	Software Development
Communication	Leadership
Mentoring	Cloud Computing Infrastructures
Collaborative Teamwork	Problem Solving

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## LANGUAGES

**English (Fluent)**

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**Swahili (Fluent)**

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