

## SUMMARY

I have 6+ years industrial experience in Software development, Big Data Engineering, and Big Data Analytics seeking an opportunity to join a progressive and dynamic organization in need of a motivated, career focused, results-oriented and innovative professional. I hold strong Big Data Analytics skills, programming using Java, Python, Scala, Machine Learning and Data Mining skills, with the ability to make well-reasoned decisions in a speedy manner. I am excellent at multi-tasking and proficient at carrying out projects in compliance with established procedures paying meticulous attention to detail. I work well in teams and also confidently work alone with minimum supervision. I am highly proficient in Hortonworks Hadoop Ecosystem, IBM, Microsoft, Linux and Oracle Technologies.

### Specialities:

<b>Big Data Technologies:</b>	Apache Hadoop, Spark, HBase, Ambari, Sqoop, Pig, Hive, Oozie, Ranger, Phoenix, Airflow, Kafka, SAP HANA
<b>Programming Languages:</b>	Java, Python, Scala, PHP, Vb.Net, Javascript
<b>Databases:</b>	Neo4j, Cosmos, MongoDB, Teradata, MySQL, PostgreSQL, MS SQL Server
<b>Data Science Tools:</b>	Databricks, Jupyter Notebook, Zeppelin, Weka, Orange, Tensorflow, Qlik-Sense, Power BI
<b>Platforms:</b>	Windows Server, RedHat Enterprise, CentOS, Ubuntu
<b>IDEs &amp; Frameworks:</b>	IntelliJ, MS Visual Studio, Anaconda, Spyder
<b>Cloud Platforms:</b>	Microsoft Azure, Amazon Web Services

### Qualifications:

Qualification: Master of Technology in Computer Science & Engineering (First Class)  
Year: 2018

Qualification: Bachelor of Science in Computer Science Honours Degree (Upper 2<sup>nd</sup> Class)  
Year: 2014

Qualification: National Certificate in Electronic Data Processing (Distinction)  
Year: 2008

Qualification: Advanced Level Mathematics, Physics, Chemistry  
Year: 2010

### Certifications:

Azure Certified Data Engineer (DP-200)  
Neo4j Certified Professional  
Hortonworks Big Data Hadoop Certificate  
Big Data Engines and Tools – SAP Certification  
Enterprise Deep Learning With Tensorflow – SAP Certification  
Python Programming for Data Science  
Machine Learning With Python  
Big Data Analytics – IBM Badge  
Data Science for Business – IBM Badge  
Scala Programming for Data Science - IBM Badge  
IBM Badges - Hadoop Programming, Administration & Apache Spark  
Google Analytics IQ Certified

**Major and most successful Project Achievements:**

Project Achievement: ABSA Bank FinCrime & Conduct Risk Big Data Reporting Platform  
 Year: July 2019

Project Achievement: Transnet Freight Rail (TFR) Supply Chain Big Data Analytics (CAATs)  
 Year: December 2018

Project Achievement: Airports Company of South Africa (ACSA) Parking Revenue Data Analytics  
 Year: November 2018

**WORK EXPERIENCE**

Industry	Years' Experience	Companies
Banking Industry	Present	Standard Bank (S.A)
Banking Industry	8 Months	ABSA Bank Limited (S.A)
Audit, Advisory, Tax	8 Months	SkX Protiviti (S.A)
Banking & Microfinance Software Development	3 years, 1 month	Escrow Systems Africa
Banking Industry	5 months	Steward Bank Zimbabwe
Banking Industry	1 year	Steward Bank Zimbabwe

**TECHNICAL SKILLS MATRIX**

Expertise	Level
Training Only	1
Limited Practical Experience/Proof of Concept	2
Solid Practical Experience	3
Extensive Practical Experience	4
Expert Level	5

SKILLS	Years of Experience	Last used	Level
<b>Development Languages</b>			
Java	5	May 2020	5
Spark	3	May 2020	4
Python	3	May 2020	5
Scala	2	May 2020	3
PHP	4	May 2020	4
VB.NET	4	May 2020	4
C#	4	May 2020	3
Javascript	3	May 2020	3
<b>Development Tools</b>			
IntelliJ	6	May 2020	5
Netbeans	6	May 2020	5

SKILLS	Years of Experience	Last used	Level
MS Visual Studio	6	May 2020	5
Anaconda	3	May 2020	4
Spyder	3	May 2020	4
Dreamweaver CS6	4	September 2019	5
<b>User Interface</b>			
HTML 5	6	September 2019	5
CSS	6	September 2019	5
Bootstrap	4	August 2019	4
UIKit	2	December 2017	3
<b>Database &amp; Big Data</b>			
Hadoop (Hortonworks & Cloudera)	4	May 2020	5
Hive	3	May 2020	5
HBase	2	May 2020	4
MongoDB	2	May 2020	3
Teradata	3	August 2019	4
MySQL	4	May 2020	5
PostgreSQL	3	May 2020	4
MS SQL Server	5	May 2020	5
Neo4j	2	August 2019	4
SAP HANA S/4	0.5	October 2019	3
<b>Frameworks</b>			
JHipster	2	May 2020	3
Spring MVC	3	October 2019	3
Grails	2	August 2019	3
Hibernate	2	August 2019	3
Struts	1	June 2019	2
Play	1	August 2019	2
Akka HTTP	1	August 2019	2
<b>ETL Tools</b>			
Informatica	2	July 2019	3
Spark	3	April 2020	3
Talend	3	February 2019	3
Apache Kafka	2	May 2020	3
Apache Airflow	1	May 2020	3
Apache Nifi	1	September 2019	2
<b>Machine Learning &amp; Data Science</b>			
Weka	2	November 2018	3
Tensorflow	2	July 2019	3
Scikit Learn	2	July 2019	3
Orange	2	July 2019	3
Mahout	1	August 2019	2

SKILLS	Years of Experience	Last used	Level
Rapid Miner	1	August 2019	2

Personal Attributes		
Ability to Self-Manage	Consultant Mindset	Good Team Player
Curious & eager to learn new Tech	Researcher	

## QUALIFICATIONS

Tertiary Education			
Year	Degree/Diploma	Description	Institute
2018	Master's Degree	Master of Technology in Computer Science & Engineering - (First Class With Distinction) (SAQA Evaluated)	Parul University, Gujarat, India
2014	Honours Degree	BSc Computer Science Honours Degree (Class 2.1) (SAQA Evaluated)	Midlands State University, Zimbabwe
Certification/Courses/Training			
2008	National Certificate	National Certificate in Electronic Data Processing (Distinction)	Kutama College, Zimbabwe
2010	Certificate	Advanced Level Mathematics, Physics, Chemistry	Kutama College, Zimbabwe
2017	Certificate	Google Analytics IQ Certified	Google
2018	Certificate	Neo4j Certified Professional	Neo4j
2017	Certificate	Hortonworks Big Data Hadoop Certificate	Hortonworks
2017	Certificate	Big Data Engines and Tools – SAP Certification	SAP
2017	Certificate	Enterprise Deep Learning With Tensorflow – SAP Certification	SAP
2017	Badge	Python Programming for Data Science	IBM
2017	Certificate	Machine Learning With Python	IBM

2017	Badge	Big Data Analytics – IBM Badge	IBM
2017	Badge	Data Science for Business – IBM Badge	IBM
2017	Badge	Scala Programming for Data Science - IBM Badge	IBM
2017	Badge	IBM Badges - Hadoop Programming, Administration & Apache Spark	IBM
<b>Secondary Education</b>			
Year	Certificate	Description	Institute
2008	ZimSec Ordinary Level	Ordinary Level Certificate	Kutama College, Zimbabwe

### PERSONAL DETAILS

<b>Full Name &amp; Surname</b>	Stewart Fohlo
<b>Passport Number</b>	EN*****57
<b>Date of Birth</b>	22 November 1991
<b>Nationality</b>	Zimbabwean – S.A Permanent Resident & Critical Skills Visa
<b>Race</b>	African
<b>Gender</b>	Male
<b>Marital Status</b>	Married
<b>Living Location</b>	Randburg, Johannesburg
<b>Contact Email</b>	fostewart@gmail.com
<b>Contact Numbers</b>	0614682979
<b>Languages</b>	English
<b>Drivers Licence</b>	C1 Drivers' License
<b>Own Transport</b>	Yes
<b>Notice Period</b>	30 days
<b>Current Earnings (Gross)</b>	Negotiable
<b>Next Salary Review Date</b>	N/A
<b>Required Earnings (Gross)</b>	Negotiable

### EMPLOYMENT OVERVIEW

Company	Position	Permanent/Contract	Period
Standard Bank	Data Engineer	Contract	Nov 2019 - Present

ABSA Bank Limited (S.A)	Big Data Developer	Contract	Jan 2019 – Aug 2019
SkX Protiviti (S.A)	Data Engineer	Contract	Aug 2019 – November 2019
SkX Protiviti (S.A)	Data Engineer	Contract	Jun 2018 – Dec 2018
Escrow Systems Africa	Software Developer	Permanent	May 2015 - Jun 2018
Steward Bank Zimbabwe	Software Developer	Permanent	Jan 2015 – May 2015
Steward Bank Zimbabwe	Software Developer - Internship	Internship	Jan 2013 - Dec 2013

## CURRENT EMPLOYMENT

<b>Company</b>	<b>Standard Bank</b>
<b>Industry</b>	<b>Banking</b>
<b>Job Title</b>	Data Engineer – Group Risk and Compliance
<b>Reported to</b>	Bradley Bowes <a href="mailto:Bradley.Bowes@standardbank.co.za">Bradley.Bowes@standardbank.co.za</a>
<b>Period</b>	November 2019 - Present
<b>Reason for wanting to leave</b>	Contract is ending

### Overall Duties & Responsibilities:

- Translate abstract regulatory requirements into a working solution architecture alongside the product owner, other stakeholders and relevant architects. Continually acquire a broad understanding of the business landscape with minimal guidance, and a deep understanding where regulatory requirements necessitate it. Identify opportunities to sweat assets or produce a future data asset for consumption by other parties. Present architectural solutions at the appropriate forums and boards for socialisation and approval.
- Create and maintain optimal data pipeline architecture and creating databases optimized for performance, implementing schema changes, and maintaining data architecture standards across the required Standard Bank databases. Work alongside data scientists to help make use of the data they collect.
- Assemble large, complex data sets that meet functional / non-functional business requirements and align data architecture with business requirements. Processes, cleanses, and verifies the integrity of data used for analysis.
- Build analytics tools that utilise the data pipeline to provide actionable insights into customer acquisition, operational efficiency and other key business performance metrics. Create data tools for analytics and data scientist team members that assist them in building and optimising Standard Bank into an innovative industry leader.
- Utilise data to discover tasks that can be automated and identify, design, and implement internal process improvements: automating manual processes, optimizing data delivery, re-designing infrastructure for greater scalability, etc.
- Designing and developing scalable ETL packages from the business source systems and the development of ETL routines in order to populate databases from sources and to create aggregates. Oversee large-scale data Hadoop platforms and to support the fast-growing data within the business.

- Responsible for enabling and running data migrations across different databases and different servers and defines and implements data stores based on system requirements and consumer requirements.
- Responsible for performing thorough testing and validation in order to support the accuracy of data transformations and data verification used in machine learning models.
- Perform ad-hoc analyses of data stored in Standard Banks databases and writes SQL scripts, stored procedures, functions, and views. Proactively analyses and evaluates the Standard Banks databases in order to identify and recommend improvements and optimisation. Deploy sophisticated analytics programs, machine learning and statistical methods.
- Analyse complex data elements and systems, data flow, dependencies, and relationships in order to contribute to conceptual physical and logical data models.
- Liaise and collaborate with the entire Global Markets Technology team, providing support to the entire department for its data centric needs. Collaborate with subject matter experts to select the relevant sources of information and translates the business requirements into data mining/science outcomes. Presents findings and observations to team for development of recommendations.
- Act as a subject matter expert from a data perspective and provides input into all decisions relating to data engineering and the use thereof. Educate the organisation on data engineering perspectives on new approaches, such as testing hypotheses and statistical validation of results. Ensure ongoing knowledge of industry standards as well as best practice and identify gaps between these definitions/data elements and company data elements/definitions.

## PREVIOUS EMPLOYMENT

<b>Company</b>	<b>ABSA Bank Limited</b>
<b>Industry</b>	<b>Banking</b>
<b>Job Title</b>	Big Data Developer
<b>Period</b>	January 2019 – August 2019
<b>Reason for leaving</b>	Contract Concluded

### Overall Duties & Responsibilities:

- Big Data Development for Financial Crime and Conduct Risk (Hortonworks)
- Hadoop development and implementation
- Loading data from various different systems and databases.
- Pre-processing using Hive and Pig
- Perform data quality checks in a methodical manner to understand how to accurately utilize client data.
- Expert level programming skills using Hadoop to meet the challenges of advanced data manipulation, complicated programming logic, and large data volumes
- Communicate results and methodology with the project team and clients with the ability to work in offshore/onshore model.
- Provide solutions for data driven applications involving large and complex data and providing reconciliation and test cases.
- Understand customer's Business processes and pain areas which need attention
- Source system understanding and analysis.
- Solution Architecture for the entire flow from source to end reporting data marts.
- Design Conceptual and physical data model for a global data warehouse in the Hadoop world (ETL versus ELT)

- High Level & Low Level design for ETL Components in Hadoop
- Test prototypes and oversee handover to operational teams.
- Propose best practices/standards.
- Hands on work on Sqoooping and Hive transformations
- Build monitoring and testing mechanisms around Sqoooping and data transformations
- Continuous improvements to the current Hadoop set up in terms of scalability, reliability and monitoring.
- Analyse and enhance the architecture of the current implementation

<b>Company</b>	<b>SkX Protiviti</b>
<b>Industry</b>	<b>Audit, Advisory, Tax</b>
<b>Job Title</b>	Data Engineer
<b>Period</b>	July 2018 – December 2018, August 2019 – November 2019
<b>Reason for leaving</b>	Contract Concluded

**Overall Duties & Responsibilities:**

- Identify, design, and develop data analytics extract routines to support audit activities performed by the Internal Audit team.
- Manage data extraction, storage, transformation, and processing through data analytics routines, and generate output for visualization/analysis by the Internal Audit team.
- Use data analysis tools to automate audit testing and develop techniques for continuous auditing and analyzing large volumes of data.
- Interact with management and business partners to identify appropriate data sources and data elements required for analytics, applying professional scepticism when assessing data sources and validating the completeness and accuracy of data received.
- Interact and collaborate with Internal Audit team members in working towards departmental goals.
- Perform audit tests of controls by obtaining and analyzing audit evidence, preparing audit workpapers, evaluating test results, and drawing conclusions on the adequacy and effectiveness of controls

<b>Company</b>	<b>Escrow Systems Africa</b>
<b>Industry</b>	<b>Banking &amp; Microfinance Software Development</b>
<b>Job Title</b>	Software Developer
<b>Period</b>	May 2015 – June 2018
<b>Reason for leaving</b>	Relocated to South Africa

**Overall Duties & Responsibilities:**

- Developing web based software using computer programming languages such as VB.net, C#, Java and MSSQL.
- Performing extensive software testing and stringent quality checks as per the QC guidelines to ensure an error free as well as optimum final product to the user.
- Creating and maintaining the ASP.NET based websites and their web applications as per the initial guidelines of the client.



- Making changes to existing web applications according to the feedback received from the end users or clients. In some cases, changes were also made in order to update the application's compatibility with the latest operating systems and browsers.
- Testing the applications and websites on different web browsers to ensure a standard user experience for the clients across all platforms.
- Developing documentation throughout the software development life cycle (SDLC)
- Training the end user or client on the final product as well as providing technical support whenever required, weekends included.

<b>Company</b>	<b>Steward Bank</b>
<b>Industry</b>	<b>Banking</b>
<b>Job Title</b>	Software Developer
<b>Period</b>	January 2015 – May 2015
<b>Reason for leaving</b>	Better Opportunity

**Overall Duties & Responsibilities:**

- Executed full software development life cycle (SDLC)
- Developed flowcharts, layouts and documentation to identify requirements and solutions
- Wrote well-designed and testable code
- Troubleshoot, debug and upgrade existing systems
- Integrated software components into a fully functional software system
- Documented and maintained software functionality
- Deployed programs and evaluate user feedback
- Ensured software is updated with latest features

<b>Company</b>	<b>Steward Bank</b>
<b>Industry</b>	<b>Banking</b>
<b>Job Title</b>	Junior Software Developer - Internship
<b>Period</b>	January 2013 – December 2013

**Overall Duties & Responsibilities:**

- Pair with other developers and learn the software development process and life cycle of a feature request
- Testing a senior developer's work and hunt for bugs
- Writing basic code using Java and C# programming languages
- Assist in system deployment and user support
- Train users on new system features and improvements
- Participating in execution and documentation of tests.
- Executing conversion plans and documenting possible improvements; identifying disruptions in the processes.



### **Verify Certifications and Achievements**

- Azure Data Engineer (DP-200) – Implementing an Azure Data Solution  
<https://www.youracclaim.com/earner/earned/badge/0b09bff5-6bcb-4f69-80fe-cce954888597>
- SAQA Evaluation (Master of Technology in Computer Science & Engineering)  
<https://www.privyseal.com/za/stewart-fohlo/saqa-certificate-of-evaluation/1c>
- Big Data Analytics & Data Science Verified Certification Badges Issued by IBM. View and verify IBM Issued badges on <https://www.youracclaim.com/user/stewart-fohlo>  
(Click on each Badge for Information)
- Hortonworks HDP Essentials  
<https://verify.skilljar.com/c/xvcz5uoeon67>
- Neo4j Cerifited Professional  
<https://graphacademy.neo4j.com/certificates/46497a500ff066a214e880476e4b8c638c03b147750269ae918e244bed9abbc5.pdf>
- Big Data with SAP Vora – Engines and Tools  
<https://open.sap.com/verify/xoges-cubat-merur-tugyk-vuceq>
- Published Paper on Artificial Intelligence and Expert Systems  
<http://www.theijes.com/papers/v4-i12/J04120666071.pdf>
- Published Paper on Voice Recognition and Feature Extraction Techniques  
[https://www.academia.edu/34656957/Empirical\\_Review\\_Paper\\_on\\_Voice\\_Recognition\\_and\\_Feature\\_Extraction\\_Techniques](https://www.academia.edu/34656957/Empirical_Review_Paper_on_Voice_Recognition_and_Feature_Extraction_Techniques)
- Ariel Sports Ecommerce Web Portal (See developer tag – Stewart Fohlo)  
<http://www.arielsports.co.zw/>

## **References**

1. Mr. Isaac Tarume  
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