

Qoane Seitlheko

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EDUCATION

BCom (Quantitative Management), University of South Africa June 2016 - 2018

Major courses

Financial Modelling, Optimization of Resources, Models for Strategic Decision-Making

BCom (Information systems), University of the western Cape 2006-2009

Major courses

Systems Analysis, Business Analysis, Systems Development (major courses)
Java, PHP, Python, C++, Economics, Statistics

Data Science Certificate, DataCamp 2019

International Baccalaureate, Machabeng International School 2001, 2003

C.O.S.C (O-Level), Lesotho High School 1996 – 2000

WORK EXPERIENCE

**Boxfusion,
Senior Software Developer**

June 2024 – Current

I head the software development team as an architect and integration specialist

**Boxfusion,
Senior Software Developer**

January 2022 – May 2024

I work as a Software Development Architect for Boxfusion in Pretoria, SA. My duties are formulating long term plans for the development team, being in charge of the DevOps and making sure the development team is as effective as possible. I was part of the Box Health arm of Boxfusion which deals with Health Systems that shipped the company's first Health Information System for the Houghton hospital.

I am an integration Developer working on various projects that include any kind of external integration with other systems. I work with our in-house Shesha framework which is a low code development platform based on ABP.

**NACOSEC,
Senior Developer (SD)**

August 2020 - January 2021

My primary role is to develop tools that help NACOSEC meet its targets. My first assignment was to deliver the Citizen App which is a mobile application for citizens to stay informed about the Covid-19 pandemic in the country and also help assess the spread of the disease. I also developed the entities website, the API between the MoH and NACOSEC citizen app for data collection and analysis. The API is housed on the NACOSEC website and is the bridge between the Citizen app and the DHIS2 at MoH.

I am also the sole Business Analyst in the organisation and as such, I help with making our processes more efficient and in line with our mandate.

**Ant Technologies (South Africa),
Senior Software Engineer (Consultant)**

July 2021 - Current

I joined to help the company run the development team. I am currently developing strategies around the company's operations like the on-boarding process, the recruitment of new engineers and the tech stack that is going to be the primary stack for the next few years. I am also involved in development of a few projects like eChankura mobile payments platform. With the eChankura project, I am developing a backend platform that will handle different Value-Added Services like buying airtime, electricity and others. We primarily use OutSystems for development.

**Comnet,
Senior Software Engineer**

January 2017 - June 2021

I was the Software Development Manager for Comnet. My duties involved formulating long term plans for the department and measuring their success. A majority of this revolves around formulating strategy, helping Comnet secure clients and developing the solutions. I am also looking at improving internal systems. The first major task was to build a CRM for the company.

After joining Comnet, we became the first company in Lesotho to develop and deploy a fully-fledged Queue Management System (QMS) in a number of high-profile companies.

I was also in charge of business analysis for the company and have achieved success in streamlining business processes to maximise lead conversion and revenue. I developed a dashboard powered by a custom CRM that gives department managers an overview of the sales processes.

A lot of what I did at Comnet was to develop tools that helped with gathering as much data as possible, help with cleaning the data and finally analysing the data to help management make informed decisions. I developed AI driven tools that help the company with predictive analysis of sales.

**SeeSaw Water Systems (South Africa),
Duties and Accomplishments**

October 2016 - February 2017

Java Backend and mobile Developer

At SeeSaw, my duties revolve around auditing and enhancing the flagship SeeSaw mobile application (SSR) to be more secure. The mobile application used to collect data (built in Java on Android) in the field has no authentication methodology and my duty is to implement a two-factor mechanism for making each mobile device unique. Since SeeSaw uses Google Sheets a lot, my tasks also involved programming in GScript, the various interactions of the application with the customer dashboards developed using Google Sheets

WebCube IT Solutions (Freelancer)

April 2015 – 2018

Consulting Developer

April 2016 – Current

Development of a mobile application for music sales

I am currently finishing up a mobile application that I am doing as a freelancer. The application is a music sales application that is built on the Xamarin (C#) platform. The backend is built on C# with a MSSQL database. The application uses two local payment systems (MPESA- Vodacom and Eco Cash - Econet). Econet's API uses REST while Vodacom's uses SOAP.

Development of a mobile application for Alliance Insurance

I developed a mobile data collection tool for Alliance Insurance Lesotho. The application has two parts: the client (mobile) and server (on pc) parts. The purpose of the application is to help with data cleansing for the new ERP procured for Alliance. The application's server was built from scratch with C#.Net.

August 2016 - October 2016

Developing a Telephonic Loan Approval Application

Metropolitan Lesotho wanted to have a system that current (qualifying) policyholders could use to apply for loans against their policies without physically being at their branches. The application records incoming calls (consultants can choose when the call is about a loan application) and a client enters their policy number and password in a secure way by using DTMF. I initially utilized NEXMO for their IVR as I did not find a suitable library for decoding DTMF tones. I later built a DTMF decoder in C++ which achieved just enough results to be accepted for the application.

January 2016 - March April 2016

Developed an SMS application for Metropolitan Lesotho

I was contracted by Metropolitan Lesotho to develop an SMS application to serve as a general notification system for their clients and employees. The application is written in C#. Any column in the data source can be used as a variable in the application to create personalized messages. I had to build a custom templating engine that can parse custom templates with variables and resolve them to personal messages per recipient. A challenging feature was the resolution of column names to variables available in the message using brackets ({column}). I used regular expressions and LINQ to create my templating engine. In enhancing the application, I built a generic application that does not define a data source but instead takes in a Json object which gives the application information like the message template, the type of message, which SMS API to use (SMPP, REST, SOAP). Then wrote a general class that defines the basic features of an SMS supplier. For every service provider, a new definition is made in the system which gives the application necessary parameters and how to send. I also built a data source adapter that defines the logic of communicating with specific data sources with ODBC. The data source adapter is written in VB.Net and can connect to MySQL, MSSQL, EXCEL, XML, JSON, CSV and we can even define our formats.

Developed a Queue Management System for Metropolitan Lesotho

I was contracted by Metropolitan Lesotho to develop a queue management system for their offices. The commands that call the application to call the next customer and output a signal to a monitor are triggered by pressing a button press. The application is built on VB.Net. I used a custom-made Arduino controller to build a module for controlling keypresses that are sent to my application over a custom API.

Audited the Alliance Core Insurance System

I was contracted by Alliance Insurance to audit an ERP solution that was developed in India. My main job was to give the board of directors a report on whether the investment should carry on or be scrapped. I brought in a junior business analyst and worked through the documentation and the system to finally come up with my report.

eMoyoDotNet (South Africa)

June 2015 - July 2016

C# Developer

At eMoyoDotNet I was tasked with developing an otoscope application based on WPF and C#. I developed an application that uses a digital otoscope to be able to take images for various body parts, control the light of the otoscope, the number of pictures taken and the resolution of the images.

Virtual Purple Health Systems (South Africa)

August 2013 – March 2015

Senior Developer and Business Analyst (VP Group South Africa) and MIS Project Manager (Lesotho office) August 2013 – November 2013

I initially joined VP as a consulting Business Analyst for the Integrated Safety Nets (ISSN) system for the Ministry of Social Development and the Electronic Management System (EMR) for the Ministry of Health. I was in charge of a small team to gather requirements, document them and produce a high quality and detailed BRS that formed the as a reference for the project.

One of my primary roles in the EMR project was to optimize reporting on the system.

- December 2013 – January 2014

I worked in designing the architecture of the MIS and NISSA parts of the ISSN system. Out of this I produced a Technical Requirements Specification which was used by the development team to design the system.

- February 2014 – July 2014

I assumed the role of Project Manager specifically for the ISSN project. During this time, I managed the project team, the contract, the budgeting and schedule of the project. I was entirely in charge of the execution of every phase of the project.

- September 2014 – March 2014

I assumed the role of Project Manager for more than one project and became part of the leadership team. My duties now included managing different teams and processes.

I joined VP Soft (a software development arm of VP) in September and was the first Mosotho to join this elite team. During this period, I achieved the following:

- Developed an SMS module for the MIS and NISSA parts of the ISSN
- Developed a case management system for managing the UAT phase for the ISSN and later introduced the same system for managing queries for the EMR problems that arise on sites
- Developed a high-level requirements management document to assist in the gathering of feedback of the EMR users.
- Developed reporting module and dashboard for EMR at the ministry for high-level management.

Topline Computers
Head of Software Development

January 2012 – September 2013

My responsibilities included liaising with clients, managing the development team and developing web-based applications for the company. I was a developer of a two-way SMS campaign for Kick4life, sponsored by UNICEF for monitoring people on ARVs.

Touch Stars Group (eTech Fleet Management)
Systems Manager

January 2011 – December 2012

I was a systems manager at eTech. My duties included programming units to be installed in vehicles setting up and maintaining the server monitoring clients' fleets and running automated reports for clients. I gained a lot of experience in SMS solutions and GPS/GIS applications and reporting with SQL. The reporting tools I created that eventually evolved into our customer portal were built with Python. I was also a network manager.

Amalgamated Engineering Solutions
(Consultancy through WebCube)
Systems administrator and web developer

October 2008 – 2012

Duties included designing, implementing and managing the network, managing and developing new functionality for their website. I developed a live chat application that runs on Amalgamated's website. It has an SMS feature for alerting technicians on clients seeking help on their website.

WebCube IT Solutions
(Part-time Lead developer)
Lead Developer

June 2008 – November 2013

I was a lead developer and have worked on many projects as a project manager. I worked on a Point of Sale application and built a CRM solution. These two projects were my biggest projects.

University of Western Cape ICS Department (AVOIR)
Intern as part of the core development team for Chisimba Framework

January 2006 – December 2007

Duties included developing the phone book for Chisimba and fixing bugs reported on the mailing list. I was a member of the Chisimba Framework core development team until December 2012. Chisimba is a Courseware Management System used by more than 100 higher education institutions including University of the Western Cape and Witwatersrand University.

Tsepo Christian High School
Mathematics and Physics Teacher

June 2003 – December 2004

Duties included teaching high school classes Mathematics and Physics as well as organising math competitions.

Technical Skills

Technology/Language	Skill Level
PHP	Very Good
Python	Good
R	Very Good
MS SQL	Good
Oracle	Good
MySQL	Very Good
MS Access	Good
Data Science	Good
Web Tools (Jquery, ajax, css, soap, xml, REST, JSON)	Very Good
Windows Server 2008 (Active Directory, IIS, DC)	Average
DHIS2	Very Good
PowerBI	Good
C#	Very Good
Embedded Systems	Average
Telematics	Good
Business Analysis	Very Good
VB.NET	Very Good
Android (Xamarin)	Very Good
Crystal Reports	Limited

REFERENCES

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