**Benson Philemon**

Kubernetes | Cloud | Microservices

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**Summary**

A certified Kubernetes Administrator (CKA) with the ability to deploy cloud-native applications using various tools such as Helm charts, Docker images, and Robin Bundles on the Robin Cloud Platform. Skilled in debugging network issues by utilizing call flows, network interfaces, architecture, and relevant protocols. Has experience working with Mavenir's products and is able to isolate issues between container nodes including WebRTC Gateway, UCCAS, TAS, IUCC, CRDL, CMS, SDC, and mStore network functions. Proficient in isolating network issues from RAN/IMS/EPC/RCS domains. Adept in utilizing Python/Pandas/Matplotlib/Seaborn to resolve real-life network challenges. Possessing a master's degree, two publications, and a project management qualification, providing evidence of the ability to learn, conduct research and effectively run a project.

**Skills**

* **Kubernetes, Docker, Helm**
* **HTML5**
* **Python/Bash**
* **Linux-Ubuntu**
* **Robin Cloud Platform/Bundle**
* **aws/s3/EC2/EBS/RDS/EKS**
* **4G/5G(NB-IoT), IMS/Volte/RCS**

**Education**

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| --- | --- | --- |
| **University** | **Year** | **Degree** |
| University of South Africa | 2016 | Advanced Project Management |
| École Supérieure D'ingénieurs En Électrotechnique , Paris | 2010 | MSc Electronics |
| Tshwane University of Technology, Pretoria | 2009 | MTech Electrical |
| Tshwane University of Technology, Pretoria | 2007 | BTech Electrical |

**Experience**

**Network Consultant: Mavenir Systems | Tokyo, Japan**

*January 2020 to Present*

Duties:

* Support cloud-native network function deployments
* Support network troubleshooting
* Cloud infrastructure audits and validations
* Support NB-IoT integration, testing and performance monitoring
* Support TWAG integration, testing and performance monitoring
* Provide NB-IoT and TWAG trainings to junior engineers

**NPO Engineer: Nokia - Rakuten Mobile | Tokyo, Japan**

*June 2019 to December 2019*

Duties:

* Instrumental in post-implementation function verifications, including handovers, TAC, for the green-field mobile network
* Post optimization performance monitoring of Rakuten 4G/LTE network, for coverage, capacity, throughput, and quality KPIs of 4G/Volte/IMS
* Led RAN Availability analytics using Python, Pandas, Plot.ly and provide insight on unavailable network sites
* Perform Single Site Verification (SSV) for the world’s first cloud-native V-RAN 4G network
* Tools used include XCAL, NetVelocity, Foresight

**Technical sales & Projects: Gcwensa Telecom | Johannesburg, South Africa**

*March 2018 to June 2019*

Duties:

* Pre-sale engineering for NetChart PM/CM/FM network tool
* Pre-sale engineering for Gladiator DT benchmarking tool
* Prepare proposals and plan PoC
* Manage RF audits and support network equipment implementations
* 2G/3G/4G network optimizations

**RAN Technical Consultant: TIA Telecom/MTN/Ericsson (Customer Complains Project) | Johannesburg, South Africa**

*March 2017 to February 2018*

Duties:

* Perform network issue root cause analyses and plan strategy for resolution
* Perform network optimization
* Tools used include Moshell, MAPS, FACTS, AriesoGEO, Gladiator, and Excel

**RAN Planning & Optimization Engineer: TIA Telecom | Johannesburg, South Africa**

*April 2014 to February 2017*

Duties:

* Provide technical training/support on the use of our multi-technology (2G/3G/LTE) test tools
* Design an automated reporting system for walk /drive test/ benchmark report
* Drive test log analysis
* 2G/3G Radio Planning and Optimization
* Coverage predictions, and new site planning
* Radio network audit and database clean-up

**Post-grad Research: Tshwane University of Technology | Pretoria, South Africa**

*September 2011 to April 2014*

Duties:

* Conducted research in the area of energy saving in the mobile network, and compiled a research proposal titled: "energy saving and inter-cell interference management strategies in LTE network"
* Part-time lecturer for Electrical/Electronics subjects

**RF Surveyor: EMSS Consulting Pty | Cape Town, South Africa**

*July 2009 to June 2011*

Duties:

* EMF field measurement, a Vodacom South Africa project

**RAN Engineer: BCNK Consulting Pty | Johannesburg, South Africa**

*April 2009 to June 2009*

Duties:

* DT Benchmarking for MTN, South Africa

**Accomplishments**

* Developed a Drive Test Benchmark reporting automation solution. This eliminated manual reporting and significantly reduced report preparation time
* Researched Automatic Cell Planning (ACP) in GSM network and published two research papers at IASTED international conference. Research depicted how to use Matlab and Genetic Algorithms to optimize base station locations

**Language**

* English
* Swahili

**Projects**

* Mavenir and Rakuten Rich Communication Service (RCS). *Japan, 2022-current.*
* Mavenir and Rakuten NB-IoT. *Japan, 2020-2021.*
* Nokia and Rakuten vRAN project.*Japan, 2019.*
* Nokia and Vodacom network optimization project. *South Africa, 2018.*
* Ericsson and MTN network performance management project.*South Africa, 2017*
* TIA Telecom and MTN Ghana DT Benchmark. *Ghana 2014-2016.*
* TIA Telecom and Econet network planning and optimization.*Zimbabwe, 2014.*