



INDIPHILE NGQAMBUZA

Computer Science Graduate(Honours)



735 Pretorius Street
Arcadia, Pretoria
0007



+27 72 596 5383



ingqambuza@gmail.com



<https://github.com/Indiphile>



[LinkedIn](#)

SKILLS SUMMARY

- C++
- Java SE, EE & Android Development
- Python
- JavaScript - Basic
- Linux
- Docker
- Kubernetes
- AWS(Python & Terraform) - Lambda, Cognito, S3, EC3, CloudWatch, CloudTrail
- Argo Project - Workflows
- Grafana - Loki
- Django
- Spatial Analysis(Python)

PERSONAL PROFILE

Inquisitive, energetic Bachelor of Science Graduate majored in Computer Science and Geographical Information Systems(Remote Sensing), with a strong foundation of Mathematics, Physics and Pure Applied Chemistry.

CAREER SUMMARY

FEB 2021 - FEB 2022 : NRF/SAASTA Intern At FOSST Discovery Centre

Key Responsibilities:

- Robotics Facilitator(Arduino and LEGO)
- Web Development Team - Drupal 9
- Promoting STEM subjects in High School(Rural Areas)
- UFH Remote and Virtual Education Laboratory
- Technical Support

April 2022 - April 2023: Software Developer Intern At South African National Space Agency(SANSA)

Key Responsibilities:

- Developing of prototype software and workflows for engagement with users/customers
- Developing software applications to support spatial datasets
- Developer Team member [@SAEOSS-Portal](#)
- Developer Team member [@Digital Earth Africa](#)
- Developer Team member [@Digital Earth South Africa](#)
- Open Datacube Indexing from AWS S3 buckets and Internal Analysis Ready Data for complex spatial analysis
- Developing script and Argo workflows to automate tasks (e.g archive-product workflow)
- Web Mapping - Leaflet, TerriaJS, Geoserver, PostgreSQL

EDUCATION

University of Fort Hare

Bachelor of Science - Undergraduate (2015 - 2018)

- Computer Science

- Advanced C++ Programming
- Data Structures and Algorithm
- Database Management and Design
- Object Oriented Programming(OOP)
- Software Engineering
- Advanced JAVA Programming

- **Geographical Information Systems(Remote Sensing)**

- Mapwork
- Spatial Analysis
- Remote Sensing

- **Mathematics**

- **Physics**

- **Pure Applied Chemistry**

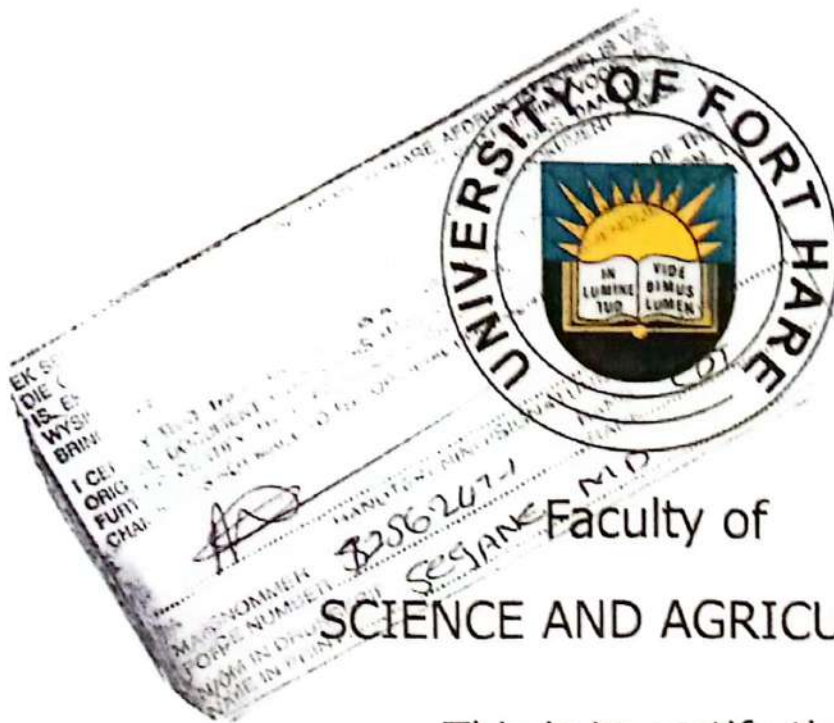
Computer Science Honours - Postgraduate (2019 - 2020)

- Year Project (Software Development)
- Distributed and Parallel Computing
- Intelligent Systems
- Human Computer Interaction
- Distributed Web Computing

REFERENCES

- Mr S Dyakalashe
Head Of Department at University of Fort Hare at University of
(Computer science)
sdyakalashe@ufh.ac.za
(+27) 79 490 2548
- Mr P Kwinana
Founder of FOSST Discovery Centre(Science Centre)
pkwinana@ufh.ac.za@ufh.ac.za
(+27) 72 771 2126
- Mr M Mukwevho
Chief Technology Officer at LexisNexis South Africa
mukosi@gmail.com
(+27) 82 859 1123
- Mr S Chowdhury
System Engineer at South African National Space Agency
seffatc100@gmail.com
+1 (647) 462-8861

1779 / 2019



Faculty of
SCIENCE AND AGRICULTURE

This is to certify that

INDIPHILE NGQAMBUZA

9711275974080

was this day at a congregation of
the University of Fort Hare
awarded the degree of

BACHELOR OF SCIENCE



16 MAY 2019

DATE

A handwritten signature, likely of the Dean, written in black ink.

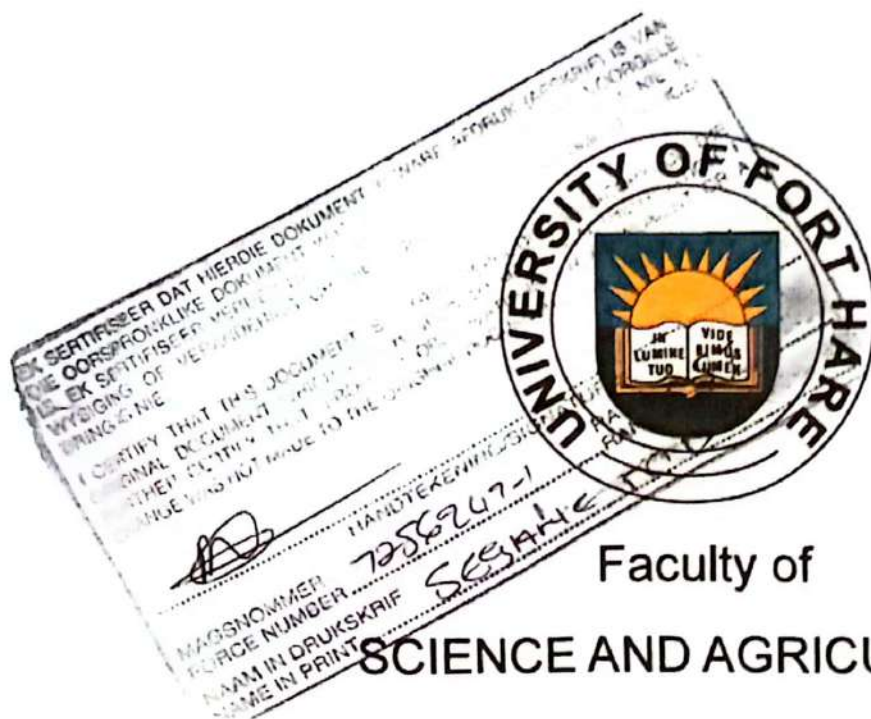
DEAN

A handwritten signature, likely of the Vice-Chancellor, written in black ink.

VICE-CHANCELLOR

A handwritten signature, likely of the Registrar, written in black ink.

REGISTRAR



Faculty of
SCIENCE AND AGRICULTURE

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INDIPHILE NGQAMBUZA

9711275974080

was this day at a congregation of
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awarded the degree of

BACHELOR OF SCIENCE (HONOURS)
COMPUTER SCIENCE



21 JUN 2021

DATE



NMord

DEAN

Chris Zuhlke

VICE-CHANCELLOR

[Signature]

REGISTRAR

EXAMINATIONS DEPARTMENT

Alice (main) Campus:
Private Bag X1314,
King William's Town Rd.
Alice, 5700, RSA
Tel: +27 (0) 40 602-2098/2383/2359
iFax: +27 (0) 86 628 2729 (Mrs. Mhambi) /
+27 (0) 86 626 2914 (Ms. Soyana) /
+27 (0) 86 621 9848 (Mr. Ndzingo)
+27 (0) 86 628 9267 (Mrs. Booysen)



University of Fort Hare
Together in Excellence

Academic Record

Name : NGQAMBUZA INDIPHILE
Student Number : 201503412
Identity Number : 9711275974080

Date of Birth : 27-NOV-1997

SOUTH AFRICAN CLIENT SERVICE CENTRE
2024-02-03
PRETORIA
SOUTH AFRICA

Year : 2015 BACHELOR OF SCIENCE (F)
Annual Result :

SEMESTER ONE ALICE

CSC111F	COMPUTER LITERACY FOR SCIENCE (F)	78 PASS - DISTINCTION
MAT111F	MATHEMATICS (F)	56 PASS
PAC111F	CHEMISTRY (F)	50 FAIL - SUPP. EXAM ALLOWED
PHY111F	MECHANICS OF A PARTICLE (F)	65 PASS

SEMESTER TWO ALICE

CSC121F	COMPUTER LITERACY FOR SCIENCE (F)	84 PASS - DISTINCTION
LKA121	LIFE; KNOWLEDGE AND ACTION	71 PASS
MAT121F	MATHEMATICS (F)	69 PASS
PAC121F	CHEMISTRY (F)	75 PASS - DISTINCTION
PHY122F	PROPERTIES OF MATTERS AND THERMODYN	72 PASS
SUPP/SPEC	SEM 1 ALICE/BISHO	
PAC111F	CHEMISTRY (F)	50 PASSED SUPPLEMENTARY

Year : 2016 BACHELOR OF SCIENCE (F)

Annual Result : PT PROCEED TO NEXT STUDY PERIOD

SEMESTER ONE ALICE

CSC113F	ELEMENTARY COMPUTER PROGRAMMING (F)	85 PASS - DISTINCTION
GLG111	INTRO.GEOL; CRYSTAL; MIN; PETRO; GEOHYD	71 PASS
MAT113F	MATHEMATICS (F)	81 PASS - DISTINCTION
PAC113F	DESCRIPTIVE CHEMISTRY (F)	72 PASS
PHY113F	PHYSICS (F)	73 PASS

SEMESTER TWO ALICE

CSC123F	ELEMENTARY COMPUTER PROGRAMMING (F)	92 PASS - DISTINCTION
GLG121	INTRO.GEOMOR; SEDIMENT; STRUCT GEOL; S	81 PASS - DISTINCTION
MAT123F	MATHEMATICS (F)	73 PASS
PAC123F	DESCRIPTIVE CHEMISTRY (F)	73 PASS
PHY123F	WAVES; VIBRATIONS AND OPTICS (F)	82 PASS - DISTINCTION

Year : 2017 BACHELOR OF SCIENCE (F)

Annual Result : PT PROCEED TO NEXT STUDY PERIOD

SEMESTER ONE ALICE

CSC211	ADVANCED PROGRAMMING	78 PASS - DISTINCTION
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University of Fort Hare
Continued From Page

Academic Record

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Date Of Birth : 27-NOV-1997

CSC212	COMPUTER ARCHITECTURE AND ORGANISAT	79 PASS - DISTINCTION
GIS211	INTRODUCTION TO MAPWORK	75 PASS - DISTINCTION
SEMESTER TWO ALICE		
CSC223	DATA STRUCTURES AND ALGORITHMS	63 PASS
CSC224	DATABASE MANAGEMENT AND DESIGN	68 PASS
GIS221	GEOGRAPHICAL INFORMATION SYSTEM	84 PASS - DISTINCTION

Year : 2018 BACHELOR OF SCIENCE (F)

Annual Result : PQ QUALIFY FOR DEGREE/DIPLOMA

SEMESTER ONE ALICE

CSC312	OPERATING SYSTEMS	64 PASS
CSC313	OBJECT-ORIENTED PROGRAMMING	69 PASS
GIS314	GIS DATABASE DESIGN AND MANAGEMENT	63 PASS
GIS315	SPATIAL ANALYSIS	75 PASS - DISTINCTION

SEMESTER TWO ALICE

CSC323	INTRODUCTION TO COMPUTER NETWORKS	73 PASS
CSC324	SOFTWARE ENGINEERING	69 PASS
GIS324	REMOTE SENSING FUNDAMENTALS AND TEC	80 PASS - DISTINCTION
GIS325	GIS PROJECT MANAGEMENT	63 PASS

This student qualified for
BACHELOR OF SCIENCE (F)

on 13 DECEMBER 2018 and it was formally awarded on 16 MAY 2019

Year : 2019 B OF SCIENCE (HONS) COMPUTER SCIENCE

Annual Result :

POST-GRADUATE ALICE

CSC501 MINI-PROJECT

SEMESTER ONE ALICE

CSC513	DISTRIBUTED AND PARALLEL COMPUTING	50 PASS
CSC515	ADVANCED JAVA PROGRAMMING	77 PASS - DISTINCTION
CSC518	INTELLIGENT SYSTEMS	62 PASS

SEMESTER TWO ALICE

CSC522	HUMAN COMPUTER INTERACTION	55 PASS
CSC523	DISTRIBUTED WEB COMPUTING	73 PASS

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50 PASS WAARNEMING VOORGELE
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77 PASS - DISTINCTION
62 PASS
55 PASS
73 PASS
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FORCE NUMBER SCIENCE RANG
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Year : 2020 B OF SCIENCE (HONS)

Annual Result :

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East London Campus:

Private Bag X9083 East London, 5200, RSA
50 Church Street, East London, 5201, RSA
Tel: +27 (0) 43 704 7003 • iFax: +27 (0) 86 628 2729 (Mrs. Mhambi) /
Tel: +27 (0) 40 602 2098 • iFax: +27 (0) 86 626 2914 (Ms. Soyana) /
Tel: +27 (0) 43 704 7319 • iFax: +27 (0) 86 621 9848 (Mr. Ndzingo) /
Tel: +27 (0) 43 704 7021 • iFax: +27 (0) 86 628 9267 (Mrs. Booysen)

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Academic Record



University of Fort Hare
Continued From Page

Name : NGQAMBUZA INDIPHILE
Student Number : 201503412
Identity Number : 9711275974080
SEMESTER TWO ALICE
CSC523 DISTRIBUTED WEB COMPUTING

Date of Birth : 27-NOV-1997

67 PASS

MR L BEJA FOR REGISTRAR
24-MAR-2021

Examination Office

24 MAR 2021

University of Fort Hare

Ek sertifiseer dat hierdie dokument 'n ware afdruk (afskrif) is van die oorspronklike dokument wat aan my vir waarneming voorgeleë is. Ek sertifiseer verder dat, volgens my waarnemings, daar nie 'n wysiging of verandering op die oorspronklike dokument aangebring is nie.

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FORCE NUMBER

RANK

NAAM IN DRUKSKRIF

SEGANE MO

NAME IN PRINT

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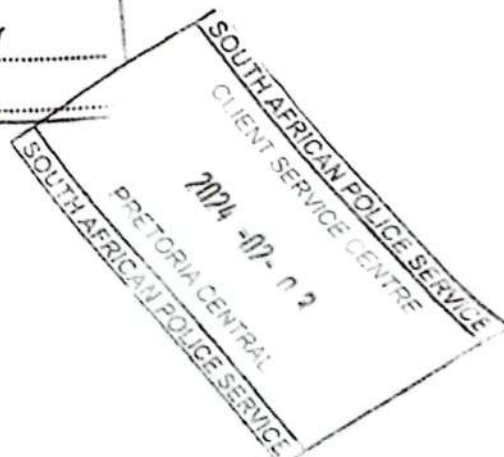
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RANK

NAAM IN DRUKSKRIF

SEGANE MO

NAME IN PRINT



NOTICE OF PERSONAL PARTICULARS

1. Any changes to the personal particulars in your ID Book must be communicated to all relevant parties.

NOTICE OF CHANGE OF ADDRESS

1. Keep the NOTICE OF CHANGE OF ADDRESS form in this pocket to report a change of address or a change in particular of your present address e.g. name of street and/or street number etc.
2. Hand in at or post to the nearest regional/district office of the DEPARTMENT OF HOME AFFAIRS

I.D. No. 971127 5974 080



S.A.CITIZEN

SURNAME
NGQAMBUZA

FORENAMES
INDIPHILE

COUNTRY OF BIRTH
SOUTH AFRICA

DATE OF BIRTH
1997-11-27

DATE ISSUED
2013-01-24



ISSUED BY AUTHORITY OF
THE DIRECTOR-GENERAL
HOME AFFAIRS



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4. WERK NIE VERANDERING OP DIE OORSPRONKELIKE DOKUMENT AANGE
5. WERK NIE

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HEREBY CERTIFY THAT FROM MY OBSERVATIONS, AN AMENDMENT OR A
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