

# JONATHAN NDABANINGI NKOMO

Software Developer



**Phone:** (+263) 779 588 836



**Email address:** jonandabankomo@gmail.com



**Address :** 6, Josiah Chinamano Avenue, Block 2 Flat 9, Montagu Flats, Harare, Zimbabwe

## PROFESSIONAL SUMMARY

A highly experienced Full Stack Software Developer and Technical Project Manager with 3+ years of hands-on experience in designing, developing, and managing web, mobile, and enterprise applications. Proficient in frameworks like Django, Flutter, React, and Odoo ERP customization, delivering scalable software solutions tailored to organizational needs. Proven track record in leading cross-functional teams, managing projects through Agile methodologies, and delivering complex technical solutions on time and within budget. Adept at integrating data solutions, system architecture design, and overseeing end-to-end software deployment across multiple platforms.

## TECHNICAL COMPETENCIES

### ✓ ERP & Business Systems

- Odoo 17 (Customization, Module Development, Workflow Automation, Role-Based Security, API Integrations)
- Enterprise Resource Planning (ERP) Strategy & Implementation (government & private sector)

### ✓ Programming Languages

- Python (Advanced), JavaScript (ES6+), Java, PHP, SQL, Typescript

### ✓ Frameworks & Libraries

- Django, React.js, Flutter, Node.js, Bootstrap, RESTful Services

### ✓ Database Management

- PostgreSQL (Advanced), MySQL, SQLite
- Data Modeling, Query Optimization, Migration & Backup Strategies

### ✓ Cloud, DevOps & Infrastructure

- Linux Server Administration (Ubuntu/CentOS)
- Docker & Containerized Deployments
- CI/CD Pipelines (GitHub Actions, GitLab CI)
- Version Control (Git, GitHub, GitLab)

### ✓ Software Engineering & Architecture

- Microservices & Modular System Design
- API Development & Integration (REST, JSON, XML)
- Scalable, High-Availability Systems

### ✓ Geospatial & Specialized Tools

- QGIS, ArcGIS, GIS Data Processing & Integration
- Real-Time Asset Tracking & Telemetry Systems

### ✓ Software Project Management

- Agile (Scrum, Kanban), Waterfall & Hybrid Approaches
- Sprint Planning, Jira, Trello, MS Project

- Stakeholder Engagement & Technical Leadership

✓ **Soft Skills**

- Cross-Functional Team Collaboration
- Problem-Solving & Critical Thinking
- Technical Documentation & Knowledge Transfer
- Training, Mentorship & Public Speaking

PROFESSIONAL EXPERIENCE

ZIMBABWE NATIONAL GEOSPATIAL AND SPACE AGENCY (ZINGSA)

SOFTWARE DEVELOPER & TECHNICAL PROJECT MANAGER

JANUARY 2023 – PRESENT | HARARE, ZIMBABWE

- ✓ Designed and deployed custom Odoo 17 ERP modules (Employee Purchase Requisition, Document Management, Workflow Automation) from scratch, streamlining administrative operations.
- ✓ Configured workflow automation and state machine flows for procurement and HR, reducing approval cycle times by 60%.
- ✓ Implemented granular role-based access control and record rules in Odoo, ensuring data security and compliance.
- ✓ Integrated Odoo ERP with third-party systems (CORS API, payment platforms, and GIS tools), enabling seamless data synchronization.
- ✓ Led User Acceptance Testing (UAT) and system rollout across multiple departments, reducing post-deployment issues by 40%.
- ✓ Produced comprehensive ERP documentation (system blueprints, user guides, and technical manuals) to support sustainability and training.
- ✓ Spearheaded ZINGSA’s ERP Capacity Building Program, preparing teams for a national-level Odoo ERP initiative to streamline government operations.
- ✓ Led development of ZINGSA’s Asset Tracking & Management Platform, integrating GPS, telemetry, and Zimbabwe-specific GIS mapping.
- ✓ Architected and implemented the Continuous Operating Reference Stations (CORS) User Portal, including database management and API integration with Leica Spider systems.
- ✓ Directed cross-functional project teams, managing scope, timelines, and deliverables using Agile methodologies (Scrum & Kanban).
- ✓ Collaborated with external innovation partners to deliver scalable solutions while building in-house technical expertise.

FARMIND TECHNICAL SYSTEMS (TECHSYS)

GRADUATE INTERN - SOFTWARE DEVELOPER

APRIL 2022 – DECEMBER 2022 | HARARE, ZIMBABWE

- ✓ Contributed to the design and development of the Electronic Land Cadastre Portal, managing the full software development lifecycle, from requirements gathering to final deployment.
- ✓ Developed backend solutions for the POTRAZ Data Collection System, integrating APIs and building scalable architectures to ensure the accuracy of data collection across multiple geographies.
- ✓ Created technical design documents and business requirement specifications for large-scale ERP solutions for clients, including POTRAZ and the Department of the Surveyor General.
- ✓ Collaborated with cross-functional teams to provide GIS software solutions, improving data accessibility and usability for clients like Econet and TelOne.

EDUCATION

Bachelor Of Science In Computer Science

Eduvos (Formerly Pearson Institute), South Africa  
July 2018 - December 2021 | First Class

Masters Of Science In Big Data Analytics

Chinhoyi University of Technology  
January 2024 – Present (In Progress)

CERTIFICATIONS

- ✓ **HUAWEI HIGH PERFORMANCE COMPUTING TRAINING** (eSight-IP Enterprise NMS Basic Operation & Maintenance, CE Switches VLAN and OSPF Operation & Maintenance, CE Switches Routine Maintenance, OceanStor Pacific Storage Administrator)

PERSONAL INFORMATION

PERSONAL INFORMATION

Nationality:	Zimbabwean
Date of Birth:	16 March 1999
ID Number:	05-2004738 N 07
Passport Number:	FN133276
Languages:	English and Shona

PROJECT MANAGEMENT SKILLS

I combine strong software engineering expertise with hands-on leadership in Odoo ERP implementations and enterprise application projects. With experience in Agile (Scrum, Kanban), Waterfall, and hybrid delivery models, I manage full project lifecycles, from requirements gathering and sprint planning to UAT, deployment, and post-implementation support. I have successfully led the customization and rollout of Odoo modules for HR, Procurement, and Asset Management, integrating ERP with third-party APIs, GIS platforms, and payment systems to streamline operations. Skilled in using JIRA, Trello, and Microsoft Project, I ensure accurate tracking of progress, risks, and resources while maintaining strict alignment to scope, time, and budget. My stakeholder engagement skills allow me to translate complex ERP and system architecture requirements into clear deliverables, secure executive buy-in, and deliver impactful presentations to technical and non-technical audiences. Additionally, I develop detailed ERP documentation, including workflows, architecture blueprints, and user guides that enable knowledge transfer, training, and long-term system sustainability.

HOBBIES AND INTERESTS

- ✓ Technology & Innovation – Exploring emerging trends in software development, ERP systems, AI, cloud computing, and blockchain, with a focus on real-world applications that drive organizational efficiency.
- ✓ Artificial Intelligence & Productivity Tools – Leveraging AI platforms and automation tools to boost productivity, streamline workflows, and eliminate repetitive manual tasks.
- ✓ Business Efficiency & Transparency – Passionate about developing tools and solutions that simplify complex processes, improve accountability, and enhance decision-making across organizations.
- ✓ Continuous Learning – Reading books, journals, and industry articles on software architecture, project management, and enterprise technology to stay ahead in a rapidly evolving field.
- ✓ Documentaries & Research – Engaging with documentaries on technology, innovation, and space exploration to gain diverse perspectives on problem-solving and creativity.
- ✓ Strategic Gaming – Playing strategy and simulation games that strengthen critical thinking, planning, and resource optimization skills.
- ✓ Community & Networking – Actively participating in hackathons, tech meetups, and open-source projects to collaborate, share knowledge, and contribute to impactful innovations.

REFERENCES

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**SHELTON MUCHENA**

**GIS SPECIALIST - TECHNICAL SYSTEMS**

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**Cuthbert Tendaupenyu**

**ICT Manager ZINGSA**

☎ : +263 713 664 322

✉: [cuthbert.tendaupenyu@zingsa.ac.zw](mailto:cuthbert.tendaupenyu@zingsa.ac.zw)



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**Eduvos**

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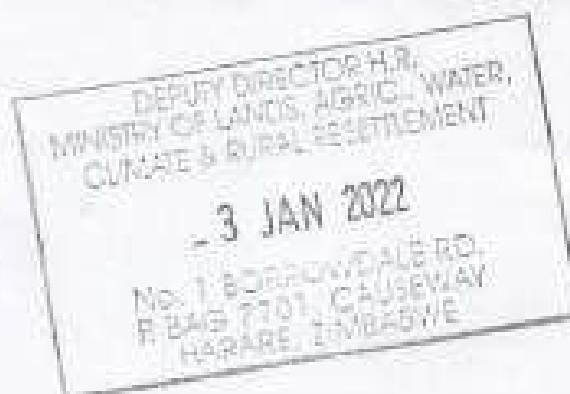
The Senate of Eduvos (Pty) Ltd hereby certifies that the

## Bachelor of Science in Computer Science

with all its associated rights and privileges was  
conferred upon

# Jonathan Ndabaningi Nkomo

in terms of the Higher Education Act, 1997.



  
Acting Dean of Faculties



  
Registrar



Registered with the Registrar General, Zimbabwe  
The certificate is not valid unless it is signed and sealed

GRD2022 1125  
Witness Number: 121042625  
Date: 21 April 2022



Mr JONATHAN NDABANINGI NKOMO  
6 Chinamano, Block 2 Flat 9 Montague  
Harare  
Harare  
Zimbabwe  
263

Date : 2022/03/29  
Student No : 94547  
Id No : FN133276  
Additional No : Pearson Id - CY9Y9Y2S5

Dear Mr JONATHAN NDABANINGI NKOMO

PROGRESS REPORT FOR THE YEAR: 2018

Programme: 74131-1 BACHELOR OF SCIENCE IN COMPUTER SCIENCE - YEAR 1 (COMPLETE)  
NQF Level : 7

Student No.	Year	Subject	NQF	Sem	Exam	Final	Result	Status	Credits
94547	2018	ITDM121 DISCRETE MATHEMATICS	6	95	91	93	Pass with Distinction	PASSED	10
94547	2018	ITSK110-S2 COMPUTER SKILLS	5	94		94	Pass with Distinction	PASSED	10
94547	2018	SSBE111-S2 BUSINESS ENGLISH	6	87	86	87	Pass with Distinction	PASSED	10
									30

PROGRESS REPORT FOR THE YEAR : 2019

Programme: 74131-1 BACHELOR OF SCIENCE IN COMPUTER SCIENCE YEAR 1 (COMPLETE)  
NQF Level : 7

Student No.	Year	Subject	NQF	Sem	Exam	Final	Result	Status	Credits
94547	2019	ITAS120 ADVANCED INFORMATION AND COMPUTER SKILLS	6	77		77	Pass with Distinction	PASSED	10
94547	2019	ITCS111 COMPUTER SCIENCE 1A	6	68	91	80	Pass with Distinction	PASSED	10
94547	2019	ITCS121 COMPUTER SCIENCE 1B	6	87	90	89	Pass with Distinction	PASSED	10
94547	2019	ITGA111 GENERIC ALGORITHM DESIGN	6	73	53	63	Pass	PASSED	12
94547	2019	ITIS111 INFORMATION SYSTEMS 1A	6	61	40	51	Pass	PASSED	12
94547	2019	ITIS121 INFORMATION SYSTEMS 1B	6	66	65	66	Pass	PASSED	12
94547	2019	ITMT111 MATHEMATICS 1A	6	84	84	84	Pass with Distinction	PASSED	12
94547	2019	ITMT121 MATHEMATICS 1B	6	66	78	72	Pass	PASSED	12

94547	2019	ITSD112	SOFTWARE DEVELOPMENT 1A	6	88	66	77	Pass with Distinction	PASSED	16
94547	2019	ITSD122	SOFTWARE DEVELOPMENT 1B	6	94	96	95	Pass with Distinction	PASSED	16
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PROGRESS REPORT FOR THE YEAR: 2020

Programme: 74131-2 BACHELOR OF SCIENCE IN COMPUTER SCIENCE - YEAR 2 (COMPLETE)  
NQF Level : 7

Student No.	Year	Subject	NQF	Sem	Exam	Final	Result	Status	Credits
94547	2020	COIA111	INTRODUCTION TO FINANCIAL ACCOUNTING	77		77	Pass with Distinction	PASSED	11
94547	2020	ITCS211	COMPUTER SCIENCE 2A	6	71	71	Pass	PASSED	10
94547	2020	ITCS221	COMPUTER SCIENCE 2B	6	84	84	Pass with Distinction	PASSED	10
94547	2020	ITDB211	DATABASES 2A	6	94	94	Pass with Distinction	PASSED	15
94547	2020	ITDB221	DATABASES 2B	6	78	78	Pass with Distinction	PASSED	15
94547	2020	ITIS211	INFORMATION SYSTEMS 2A	6	87	87	Pass with Distinction	PASSED	12
94547	2020	ITIS221	INFORMATION SYSTEMS 2B	6	96	96	Pass with Distinction	PASSED	12
94547	2020	ITSD212	SOFTWARE DEVELOPMENT 2A	6	82	82	Pass with Distinction	PASSED	13
94547	2020	ITSD222	SOFTWARE DEVELOPMENT 2B	6	84	84	Pass with Distinction	PASSED	13

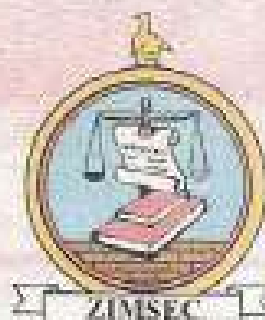
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PROGRESS REPORT FOR THE YEA : 2021

Programme: 74131-3 BACHELOR OF SCIENCE IN COMPUTER SCIENCE - YEAR 3 (COMPLETE)  
NQF Level : 7

Student No.	Year	Subject		NQF	Sem	Exam	Final	Result	Status	Credits
94547	2021	ITCSA3-B22	COMPUTER SCIENCE 3A	7	88	70	79	Pass with Distinction	PASSED	11
94547	2021	ITCSB3-B33	COMPUTER SCIENCE 3B	7	97	92	95	Pass with Distinction	PASSED	12
94547	2021	ITISA3-B11	INFORMATION SYSTEMS 3A	7	89	91	90	Pass with Distinction	PASSED	13
94547	2021	ITISB3-B33	INFORMATION SYSTEMS 3B	7	100	75	79	Pass with Distinction	PASSED	13
94547	2021	ITPRA3-B34	PROJECT	7	68		68	Pass	PASSED	32
94547	2021	ITSDA3-B12	SOFTWARE DEVELOPMENT 3A	7	79	79	79	Pass with Distinction	PASSED	25
94547	2021	ITSDB3-B12	SOFTWARE DEVELOPMENT 3B	7	55	88	72	Pass	PASSED	30
										136





## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

### ZIMBABWE GENERAL CERTIFICATE OF EDUCATION AT ADVANCED LEVEL

This is to certify that the candidate named below sat the Zimbabwe General Certificate of Education Examination at Advanced Level and was awarded the grade(s) stated in the subject(s) shown:

NKOMO JONATHAN N

020120 / 5046

EXAMINATION OF NOVEMBER 2017

NYANGA HIGH SCHOOL MARIST BROTHERS

GCE ADVANCED LEVEL

ECONOMICS  
MATHEMATICS  
FURTHER MATHEMATICS  
ACCOUNTING  
BUSINESS STUDIES

GRADE A (a) PASS  
GRADE A (a) PASS  
GRADE E (e) PASS  
GRADE A (a) PASS  
GRADE A (a) PASS

GCE AO LEVEL

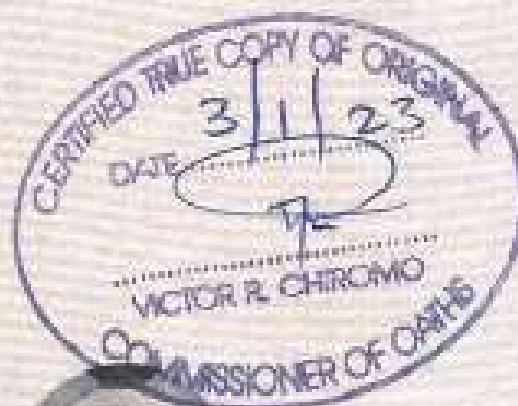
ENGLISH LANG. AND COMM. SKILLS

GRADE (3) PASS

ADVANCED LEVEL PASSES RECORDED  
AO LEVEL SUBSIDIARY PASSES RECORDED  
ORDINARY LEVEL PASSES RECORDED  
TOTAL PASSES RECORDED

FIVE  
ONE  
ZERO  
SIX

DEPUTY DIRECTOR H.R.  
MINISTRY OF LANDS, AGRIC., WATER,  
CLIMATE & RURAL SETTLEMENT  
- 3 JAN 2022  
No. 1-3 JH-REWDAL RD.  
P. BAG 7701, CAUSEWAY  
HARARE, ZIMBABWE



*L.M. Nyagura*

*E.S. Nhandara*

Professor L.M. Nyagura  
Chairman - ZIMSEC Board

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E.S. Nhandara  
Director - ZIMSEC

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See Conditions overleaf



## ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

### ZIMBABWE GENERAL CERTIFICATE OF EDUCATION AT ORDINARY LEVEL

This is to certify that the candidate named below sat the Zimbabwe General Certificate of Education Examination at Ordinary Level and attained at least grade E in the subject(s) named.

NRONG JONATHAN N

020120/3033

EXAMINATION OF NOVEMBER 2015

NYANGA HIGH SCHOOL MARIST BROTHERS

ENGLISH LANGUAGE  
LITERATURE IN ENGLISH  
RELIGIOUS STUDIES  
HISTORY  
GEOGRAPHY  
ECONOMICS  
SHONA  
MATHEMATICS  
INTEGRATED SCIENCE  
BIOLOGY  
PHYSICS  
CHEMISTRY  
PRINCIPLES OF ACCOUNTS  
BUSINESS STUDIES

B (b)  
B (b)  
A (a)  
A (a)  
A (a)  
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A (a)  
A (a)  
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A (a)  
A (a)

NUMBER OF SUBJECTS RECORDED  
NUMBER OF SUBJECTS GRADED C OR BETTER

FOURTEEN  
FOURTEEN



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Chairman - ZIMSEC Board

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Director - ZIMSEC

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