

PANASHE M. CHANDIWANA

Computer Engineering Graduate | Software Developer | AI Engineer
Highfield, Harare, Zimbabwe • panashechandiwana11@gmail.com • +263 776 877 873
[LinkedIn](#) • [GitHub](#) • [Portfolio](#)

PROFESSIONAL SUMMARY

Computer Engineering graduate with practical experience in software engineering, artificial intelligence, machine learning, enterprise systems integration and backend development. Experienced in designing and deploying end-to-end solutions involving REST APIs, databases, automation workflows and modern web applications using Python, FastAPI, Next.js, PostgreSQL and Docker. Demonstrated ability to transform business requirements into scalable technical solutions through academic research, industry experience and independent projects. Passionate about building intelligent systems that solve real-world challenges within healthcare, finance and industrial environments.

EDUCATION

Bachelor of Science (Honours) in Computer Engineering Chinhoyi University of Technology (CUT), Zimbabwe	Aug 2021 – Jun 2026
Advanced Level (A Level) Warren Park High School, Harare	2020 – 2021
Ordinary Level (O Level) Warren Park High School, Harare	2015 – 2018

WORK EXPERIENCE

IT Intern: Info-Product Technologies, Harare	Oct 2024 – May 2025
- Administered network infrastructure including switch configuration, cable management and access control across a multi-site environment. - Provided hands-on IT support to staff, diagnosing and resolving hardware, software and connectivity issues. - Monitored network performance and identified anomalies using Wireshark and Zabbix.	
Data Capturer / Warehouse Assistant: BAK Logistics, Harare	2021
- Captured, verified and managed logistics and inventory data for Unilever product distribution. - Maintained warehouse organisation and supported daily operations in a high-volume distribution environment.	
General Hand: Zimbabwe Leaf Tobacco (ZLT), Harare	2024
Supported daily operational and production activities within a large-scale tobacco company.	

PROJECTS

Loan Risk Intelligence Platform ML / Full-Stack Team Project
Built an ensemble LightGBM + CatBoost classifier on real Zimbabwean loan data (AUC 0.6768, Zindi leaderboard), engineering 56 features with SHAP explainability and provincial risk mapping across all 10 provinces.

- Delivered as a Progressive Web App with offline support, multilingual AI chat (English, ChiShona, IsiNdebele), PDF credit reports, batch CSV scoring, what-if simulations and role-based access control.

Stack: Python, LightGBM, CatBoost, SHAP, FastAPI, Next.js, PostgreSQL

Sentiment-Enhanced Clinical Decision Support System (SE-CDSS) | NLP / Full-Stack | Research Dissertation

- Conducted research under a Design Science Research framework to build a web-based clinical tool enabling personalised drug recommendations by analysing patient medication feedback.
- Applied BioBERT deep learning and Logistic Regression on the UCI Drug Review Dataset, demonstrated measurable improvement in recommendation accuracy versus baseline models.
- Integrated FastAPI backend with a Next.js frontend, containerised with Docker and persisted data in PostgreSQL.

Stack: BioBERT, Logistic Regression, FastAPI, PostgreSQL, Docker, Next.js, Git

SilicaGuard: AI-Powered Silicosis Screening Platform | Ai Engineering | Team Project | Ongoing

- HealthTech Platform that delivers AI-powered silicosis risk screening, intelligence referral and Health Education to Zimbabwe's artisanal mining communities.
- USSD self support for any miner, any phone and zero data.
- Multilingual AI WhatsApp support for 24/7 mining support
- Hospital Dashboard with real time district map, referral tracking and X-ray analysis for hospital and insurers

Stack: Flutter, Python, React, CNN, Firebase, Git

TECHNICAL SKILLS

Languages & Frameworks: Python, C,Java, FastAPI, Flask, API Development,

Machine Learning and AI: Tensorflow, Pandas, Pytorch, SHAP, LangChain, Vector Databases (Chroma), LLM, NLP, CV, Prompt Engineering, Enterprise System Integration, Automation

Tools & Platforms: VS Code, Jupyter Notebook, GitHub, Docker, Vercel, Google Colab, Postman

Databases: PostgreSQL, MySQL, SQLite, Redis, DuckDB, Firebase

CERTIFICATIONS

GCI Introduction to AI and Data Science (In Progress): Matsuo-Iwasawa Laboratory, University of Tokyo
May 2026 – Sept 2026

Member of the Founding Wave 1 Cohort of the Zimbabwe Centre of Excellence. (In Progress): ISB
OPTIMUS 2026-Present

MEMBERSHIPS & LEADERSHIP

Member: Computer Society of Zimbabwe Jan 2026 – Present

Student Representative Assembly: School of Engineering, CUT 2024

Secretary General: Methodist Church on Campus 2025 – 2026

LANGUAGES

English (Fluent) • Shona (Native)

REFERENCE

Dr Eng J. Kiwa: +263 77 825 6462

Eng M Mupemhi: +263 774 080 887: tarrybryn@gmail.com



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 attained at least Grade E in the subject(s) named.

CHANDIWANA PANASHE M

010238 / 5092

EXAMINATION OF NOVEMBER 2020

WARREN PARK HIGH SCHOOL

GCE ADVANCED LEVEL

PHYSICS
GEOGRAPHY
PURE MATHEMATICS

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

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

THREE
ZERO
ZERO
THREE




Professor Edgar Moyo
Chairman - ZIMSEC Board


Doctor Lazarus Nembaware
Director - ZIMSEC

This is a secure document using special printing and ink.
Any attempt to copy or tamper with it will be detected.
It is the right to verify the document and contact the relevant authorities if you have any queries.
For information, all passes are certified.

A/20/1000300



ZIMSEC

ANY ALTERATION, TAMPER OR TEAR REMOVES THIS CERTIFICATE INVALID



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.

CHANDIWANA PANASHE M

010238/3185

EXAMINATION OF NOVEMBER 2018

WARREN PARK HIGH SCHOOL

AGRICULTURE
COMBINED SCIENCE
MATHEMATICS
ENGLISH LANGUAGE
SHONA LANGUAGE
PHYSICS
CHEMISTRY
BIOLOGY
HISTORY
PRINCIPLES OF ACCOUNTING

D (d)
A (a)
A (a)
C (c)
A (a)
C (c)
C (c)
C (c)
C (c)
A (a)
B (b)

NUMBER OF SUBJECTS RECORDED
NUMBER OF SUBJECTS GRADED C OR BETTER

TEN
NINE

Phwenje

Paul S. Mwenje
Chairman - ZIMSEC Board

Not valid without a blue or black hologram.
This is a secure document using special
papers and inks. Hold up to the light to
verify that the Zimbabwe Bird watermark
and embossed metal thread can be seen
through the paper.



5296795



Dr L. Ncube

Dr L. Ncube
Executive - ZIMSEC

No reliance should be placed on the
accuracy of this Certificate should there
be an alteration, erasure, tear or if it is
a photocopy.

See Z conditions attached

Ha zivibvumbe kunyora papeli rino kunze kwemBhangwi omuZimbabwe anofanirwa kusa chidindo chawo pane zvinyenger zvanorwa.

Atumelanga kubv lomuuru vobhala olumye ulutho kulali ikhasi ngaphandle kwehanga leZimbabwe okumele lifake isidindo saso esisemthethweni kuoba kuyini elikubhala kulali ikhasi.

No entries to be made on this page except by a Bank in Zimbabwe whose official stamp must appear against each entry.

[illegible]

PNZWECHANDIWANA<<PANASHE<MUBAIWA<<<<<<<<<<<
GN599689<5ZWE0009014M3208036632652547L18<<44