



# CALVIN MOLAKENG

## Junior Software Developer

### PERSONAL INFO

- CONTACTS

+27 71 050 6325

[m.olakengcalvin@gmail.com](mailto:m.olakengcalvin@gmail.com)

- ADDRESS

- 700 Aubrey Matlala str
- Soshanguve L
- Pretoria
- 0001

- LINKS

- [Git-hub](#)
- [Linked-In](#)

### LANGUAGES

- English
- Southren Sotho

### CAREER OBJECTIVE

Motivated and detail-oriented SOFTWARE DEVELOPER with experience in various web development APIs. Passionate about building efficient, scalable software solutions and continuously learning new technologies to improve performance and user experience. Throughout my career, I have consistently demonstrated reliability, competence, and a focused approach to my work. My expertise encompasses a wide range of design tasks, ensuring high-quality results that meet the unique needs of each project and client.

### EDUCATION HISTORY

National Senior Certificate, Nov 2020.

Makabelane High School

Diploma in Computer Science, Jan 2021– Jun 2025

TSHWANE UNIVERSITY OF TECHNOLOGY

### WORK EXPERIENCE/ PROJECTS

#### Study Whisper – Final Year Capstone Project

*Team Lead / Backend Developer*

**Technologies:** Python, Flask API, OpenAI API, Amazon AWS (PostgreSQL)

**Duration:** [February, 2025– June, 2025]

- Led the development of a cloud-based web application aimed at enhancing student learning through AI-generated

- Sepedi
- Zulu
- XiTsonga

## SKILLS

- **Programming Languages:** [Python, Java, Kotlin, etc]
- **Web Technologies:** [HTML, CSS, JavaScript, React, etc]
- **Databases:** [MySQL, PostgreSQL-->AMAZON AWS]
- **Tools & Frameworks:** [Git, Docker, Node.js, FastAPI, OpenAI, FlaskAPI]
- **Operating Systems:** [Linux, Windows, MacOS]

quizzes and flashcards.

- Built and integrated RESTful APIs using Flask and Python to support real-time content generation and user interaction.
- Utilized OpenAI's language models to dynamically generate study materials tailored to individual course content.
- Deployed and managed backend infrastructure using Amazon Web Services (AWS) with PostgreSQL for scalable cloud data storage.
- Implemented features for users to track learning progress, enhancing user engagement and academic productivity.
- Collaborated within a team environment, applying agile development practices and version control (e.g., Git) for efficient project management.

## REFERENCES

Memani V      082 620 4347



REPUBLIC OF SOUTH AFRICA

# National Senior Certificate

Awarded to

**MOEKETSI CALVIN MOLAKENG**

Identity number 0110025968089

Exam number 3201930130079

Subject	Achievement	
	%	level
Sesotho Home Language	74	6
English First Additional Language	66	5
Mathematics	58	4
Life Orientation	62	5
Engineering Graphics and Design	40	3
Information Technology	35	2
Physical Sciences	49	3
*****	***	*

This candidate is awarded the National Senior Certificate and has met the minimum requirements for admission to diploma or higher certificate study as gazetted for admission to higher education, subject to the admission requirements of the higher education institution concerned.

With effect from December 2020

M. S. LAKOMETSI

Chief Executive Officer

This certificate is issued without alterations or erasure of any kind

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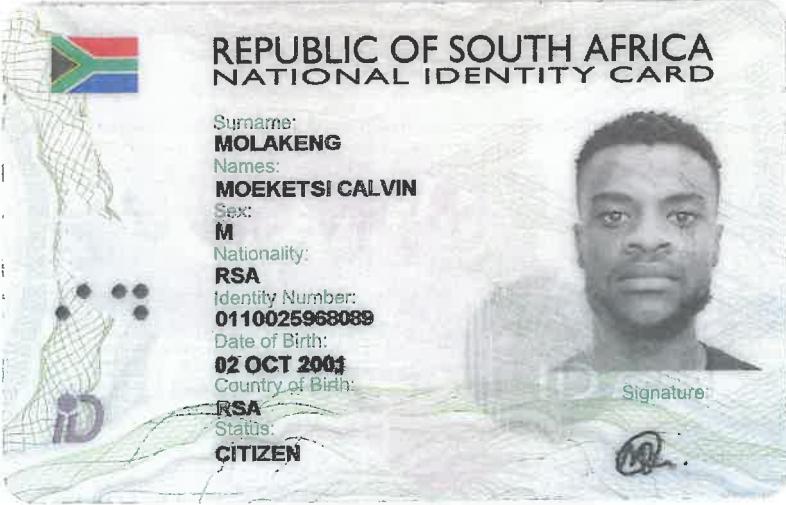
UMALUSI



Council for Quality Assurance in  
General and Further Education and Training  
South Africa

2171646

(See reverse for more information)



**Faculty Information and Communication Technology  
(SOSHANGUVE CAMPUS) – Computer Science Department**

**Enquiries: Mr V Memani**

**MemaniV@tut.ac.za**

**Tel: 012-382 9749**

**Private Bag X07, Pretoria North, 0116**

**TO WHOM IT MAY CONCERN**

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**Pre-WIL Recommendation Letter for WOC316D**

The letter certifies that the student below is a potential graduate for Diploma in Computer Science from the Tshwane University of Technology.

<b>Student Name:</b>	MC Molakeng
<b>Student Number:</b>	222863317

It is my pleasure to recommend the student for pre-WIL exposure. After successful completion of studies this semester, the student will be at liberty to undertake full WIL and register it for successful completion of the diploma.

The major fields of study in this diploma are:

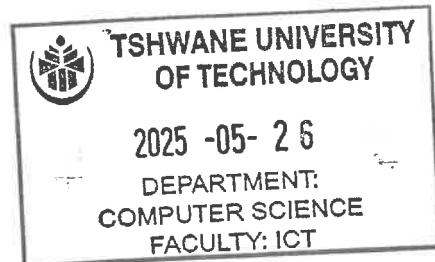
- Software Development (Programming)
- Mobile Development
- Business Analysis and Modelling
- Database Development and Administration

For the pre-WIL training to add value to the student, we suggest that the students be assigned tasks and responsibilities that are aligned to the field of study. It is to be noted that the above-mentioned fields of study are only a guideline in this regard, any other Information Technology (IT) oriented projects and task may also be accepted.

The student has consistently demonstrated an ability to rise to any challenges that he/she may face in his/her academic studies or any other endeavour.

In conclusion, I would like to state my strong recommendation for the student. If you have any further questions regarding his/her ability or this recommendation, please do not hesitate to contact me or my office using the information on this letter head.

Kind Regards,  
Vuyisile Memani  
Faculty: ICT and Department - Computer Science  
Lecturer and WIL Manager  
Building 12-114  
Tel: 012 382 9749 (082 620 4347)




26/05/2025



# Calvin Molakeng

**Certificate of Completion for**

AWS Academy Graduate - AWS Academy Cloud Foundations

**Course hours completed**

20 hours

**Issued on**

06/29/2025

**Digital badge**

<https://www.credly.com/go/jrY7HgNH>



# FNB App Academy 2025

I HEREBY CERTIFY THAT

## Calvin Molakeng

Student Number: 68762B0404A54

HAS BEEN AWARDED A

## CERTIFICATE IN FULL STACK DEVELOPMENT

App Strategies | GitHub and Collaboration | Build an App with HTML (The SDLC) | Principles of UX design + Basic Layouts + Transitions | Design Thinking | API's + Data Input + Processing | User Centric App Development | Data Management and Analysis | Business Development | Backend Development Intro | Backend Development (Build an API) | AI in Development | Business Funding | Marketing your App Business

32 Credits

15 July 2025

Certificate Number: AOTYAA072025

