# Thobani Mjiyakho

Durban, KwaZulu-Natal, South Africa

mjiyakhothobani@gmail.com 0660923214

linkedin.com/in/thobani-mjiyakho-46999b226

## Summary

Hello! I'm someone who enjoys solving tough problems and facing new challenges. Whether it's figuring out complex issues or exploring new areas, I love finding practical solutions. I'm excited about taking on fresh opportunities and approaching tasks with a new point of view. I'm always looking for ways to be creative and make a positive impact on projects. I've successfully dealt with different challenges, and I'm eager to bring my problem-solving skills to a dynamic team. If you're seeking someone with a keen sense of innovation and a track record of overcoming obstacles, I'd love to be part of your team, let's connect!

## Experience

### Technical Mentor

WeThinkCode

Sep 2023 - Dec 2023 (4 months)

Responsibilities:

- Dedicate 4 hours per week with my mentees
- Introduce them to new projects
- Do daily stand ups with them to check how they're holding up and how they're finding the curriculum
- provide the tech support they need
- Host workshops for them on the concepts they struggled to understand after a project

## Education

### WeThinkCode

Sep 2022 - Dec 2023

Qualification: MICT SETA Accredited National Certificate - Information Technologies - NQF level 5 in System Development

WeThinkCode_ is a project based peer to peer learning environment, there are no formal lectures, One just have to be discipline, committed and properly plan how they day, which evolves assigning time to learn concepts being introduced in each new project and when to complete and submit the project.

When it comes to grading our work, WeThinkCode_ make use of the command line application, that creates a git lab repo for us upon successfully run the command for starting a project, once one is done with a project and pushed to the main branch on git lab, we then run the command for grading the project.

### freeCodeCamp

Scientific Computing with Python

Oct 2022 - Aug 2023

Completing the freeCodeCamp Scientific Computing with Python course was a transformative experience. I gained mastery over Python's core syntax, advanced algorithms, and data manipulation techniques. This hands-on journey honed my ability to write efficient code, automate tasks, and conduct thorough data analysis.

Real-world projects, including interactive simulations and algorithm implementations, showcased programming's role in scientific exploration and effective problem-solving. Additionally, the course's emphasis on data handling, from cleaning to visualization, empowered me to derive meaningful insights for informed decision-making.

The course expanded my technical skill set and bolstered my confidence in tackling intricate coding and data challenges. I'm excited to apply these skills to projects requiring a strong foundation in scientific computing and programming, as I continue to grow and contribute in these dynamic fields.

## Licenses & Certifications

**C++ Training Crash Course 2022** - Udemy
certificate/UC-5c9c3521-ed13-403f-aa80-de06a7387d8e

**Java (Basic)** - HackerRank
ccee70993ddf

**Python(Basic)** - HackerRank
8ca360d81e2d

**Beginners Guider Into Python: Become a Master at Python** - Udemy
460f-8e7e-7a19f08e1f5d

**Introduction to Java** - Sololearn
CC-1YUPVKYF

**Introduction to Python** - Sololearn
CC-ZVVVZLAB

**Introduction to C++** - Sololearn
CC-ARR8U9ZU

**Introduction to SQL** - Sololearn
CC-EWBWEQHU

**Motheo 1.0 Consumer Financial Education** - Momentum

**Java Intermediate** - Sololearn

CC-7QMXZDJY

**Python Intermediate** - Sololearn
CC-NXZG026D

**Java Training Complete Course 2022** - Udemy
48f5-9235-f81382672efe

**Scientific Computing with Python** - freeCodeCamp

**Introduction to HTML** - Sololearn
CC-NFVXQZHE

**SQL(Basic)** - HackerRank
c40ebb1367c3

## Skills

JavaScript • Cascading Style Sheets (CSS) • HTML5 • GitHub • Python (Programming Language) • Communication • Linux • Java • JUnit • Git

# WeThinkCode_

Confirmation letter of NQF 5 Certificate Issuance for the cohort of 2022

26 April 2024

Dear Hiring Managers and Potential Employers,

I hope this email finds you well. As representatives of esteemed organisations, your interest in hiring talented individuals is commendable. We appreciate your consideration of our recent graduates, who completed the WeThinkCode curriculum as part of the cohort of 2022.

We understand that NQF 5 certificates play a crucial role in the hiring process, especially for internships and permanent employment. Rest assured that we are diligently working on expediting the issuance of these certificates.

As soon as the certificates are ready, we will notify the WeThinkCode_ graduate via email. We value your patience and understanding during this process, and we remain committed to providing timely updates.

Should you have any specific inquiries or require additional information, please feel free to reach out to us directly by emailing accreditation@wethinkcode.co.za

Thank you for considering our graduates for potential opportunities within your organisation.

Best regards,

**Ayanda Mda**
***Director of campuses, Johannesburg***

REPUBLIC OF SOUTH AFRICA

# National Senior Certificate

SOUTH AFRICAN POLICE SERVICE
2024 -04- 15
MONTCLAIR
KWAZULU-NATAL

I certify that this document is a true reproduction (copy) of my original document which was handed to me for authentication. I further identify that from my observations an error/slight/ a change was not made to the original document.
Signature: ... Rank: ...
Force Number: 162336

Awarded to

**THOBANI MSIZI MJIYAKHE**

Identity number 9811306001083

Exam number 5161122210086

| Subject | % | Achievement level |
|---|---|---|
| IsiZulu Home Language | 72 | 6 |
| English First Additional Language | 51 | 4 |
| Mathematics | 74 | 6 |
| Life Orientation | 86 | 7 |
| Accounting | 73 | 6 |
| Computer Applications Technology | 41 | 3 |
| Life Sciences | 48 | 3 |
| Physical Sciences | 40 | 3 |
| ********** | *** | * |

This candidate is awarded the National Senior Certificate and has met the minimum requirements for admission to bachelor's degree, 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 2016

M. S. Makometsi

Chief Executive Officer

170 4193 9633 M

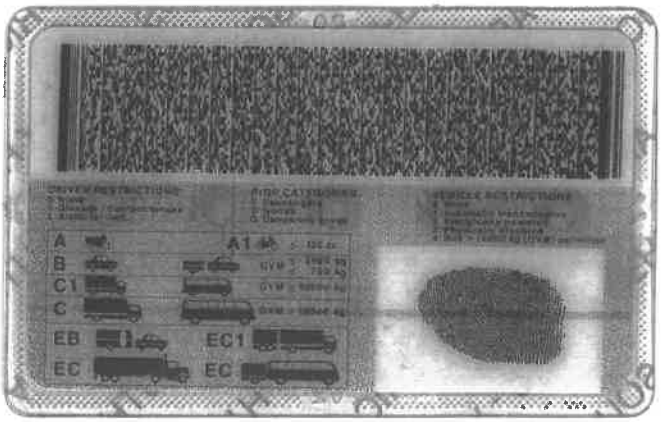
This certificate is issued without alterations or erasure of any kind

UMALUSI

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

8390012

(See reverse for more information)

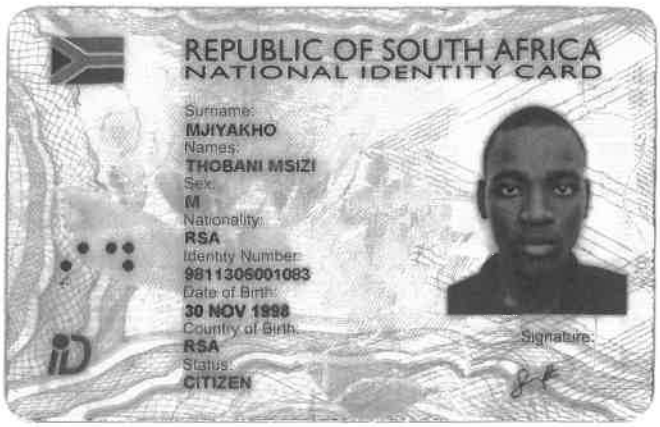

SOUTH AFRICAN POLICE SERVICE
HRM COMMANDER
2024 -01- 04
MONTCLAIR SAPS

I certify that this document is a true reproduction (copy) of the original document which was handed to me for authentication. I further certify that from my observations an amendment or a change was not made to the original document.

Signature.....

Force Number..... Rank.....

Name in print.....





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Signature.....

Force Number.....

Rank.....

Name in print.....

SOUTH AFRICAN POLICE SERVICE
HRM COMMANDER
2024 -01- 04
MONTCLAIR SAPS

South African Revenue Service

INCOME TAX

**Notice of Registration**

**Enquiries should be addressed to SARS**

Contact Detail

SARS
Alberton
1528

0800 00 7277
Website: www.sars.gov.za

TM MJIYAKHO
83 Verity Avenue
Woodlands
Durban
4004

Details

Taxpayer Reference No: 1257513232

Always quote this reference number when contacting SARS

Date: 2021-10-19

Electronic Certification

South African Revenue Service

Certified as a true copy and there is no indication that the original has been amended by any unauthorised person

2021-10-19

Dear Taxpayer

**NOTICE OF REGISTRATION**

The South African Revenue Service (SARS) confirms registration of the following taxpayer:

Name and Surname: THOBANI MJIYAKHO
ID number: 9811306001083
Taxpayer reference number: 1257513232
Date of Registration: 2021-10-10

**Your tax obligation**

Depending on your circumstances, you may be required to submit an annual income tax return. Should you be a provisional taxpayer, returns and payments will be required every six months. More details can be obtained from the SARS website.

Any person who derives by way of income any amount which does not constitute remuneration or an allowance or advance contemplated in section 8(1) of the Income Tax Act is regarded as a Provisional Taxpayer and may be required to submit provisional returns.

Kindly notify SARS of any change to your registered particulars within 21 business days of such change.

Should you have any queries please call the SARS Contact Centre on 0800 00 7277. Remember to have your taxpayer reference number at hand when you call to enable us to assist you promptly.

Sincerely

**ISSUED ON BEHALF OF THE COMMISSIONER OF THE SOUTH AFRICAN REVENUE SERVICE**

**Official WeThinkCode_ Student Academic Transcript**

| | |
|---|---|
| **Student Name:** | **Thobani Mjiyakho** |
| **Student Username:** | **thmjiya022** |
| **ID / Passport number** | **9811306001083** |
| **Cohort:** | **2022** |
| **Campus:** | **Durban** |

**Qualification Details**

WeThinkCode_ was given full accreditation status on 16 December 2022, details are below:

| | |
|---|---|
| **ID** | 48872 |
| **Qualifications Title** | National Certificate: Information Technology (Systems Development) |
| **NQF Level** | Level 5 |
| **Credits** | 131 |

| | | |
|---|---|---|
| **Year 2: Semester 1 Outcome** | | |
| Module 1 | **Brownfields Development** | **4.4** |
| Module 2 | **Distributed Systems (HTTP, Web, HTML, CSS, Persistence)** | **5.0** |
| **Year 2: Semester 2 Outcome** | | |
| Module 3 | **Quality Assurance** | **5.0** |
| **Year 2 Final Score** | | **4.69** |
| **Final Outcome** | | |
| **Pass** | | |

WeThinkCode_ (Holdings NPC) hereby certifies that these are the official results for {{name}}. {name} with ID NUMBER {NUMBER} has successfully concluded the 16-Month software engineering course with WeThinkCode_.

**Performance Scale Descriptors**

| Performance Scale Descriptors | | | | | |
|---|---|---|---|---|---|
| **Level** | **5** | **4** | **3** | **2** | **1** |
| **Outcomes** | Exceeds Expectations | Above Expectations | Meets Expectations | Below Expectations | Expectations not Met |

**Exceeds Expectations:** student is able to submit project requirements well in advance before the deadline. Grading was passed/correct on the first attempt.

**Above Expectations:** student attempted grading twice before the deadline, but passed on the second attempt before the deadline.

**Meets Expectations:** student is able to submit projects on time and pass at the required level.

**Below Expectations:** student is below expectations, attempted grading and submitted after the deadline, and passed.

**Expectations not Met:** student attempted to submit after the deadline passed/failed and this indicates that major development is required. Students should make use of the interventions available to improve performance.

**Head of Student Performance**
**Lwazi Gumede**
lwazi@wethinkcode.co.za

**Director of Campuses**
**Ayanda Mda**
ayanda@wethinkcode.co.za

# WeThinkCode_ Student Progress Report

| | |
|---|---|
| **Student Name:** | **Thobani Mjiyakho** |
| **Student Number:** | **thmjiya022** |
| **Cohort:** | **2022** |
| **Campus:** | **Durban** |
| **Date:** | **6 March 2023** |

## Performance Scale Descriptors

| Performance Scale Descriptors | | | | | |
|---|---|---|---|---|---|
| **Level** | **5** | **4** | **3** | **2** | **1** |
| **Outcomes** | Exceeds Expectations | Above Expectations | Meets Expectations | Below Expectations | Expectations not Met |

**Interpreting the Outcomes**

**Exceeds Expectations:** student is able to submit project requirements well in advance before the deadline. Grading was passed/correct on the first attempt.

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# Performance Report

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| **Year 1 Module 1 - Fundamentals of Programming**<br>This module introduces programming constructs that are the foundation of any kind of programming. To overcome the technical vocabulary of computer science, the core focus is presenting the fundamentals of programming in plain language. | | |
|---|---|---|
| **Project Name** | **Was the student able to:** | **Level** |
| **Learning with Python** | Basics of working in Python - writing and running code (editor and interpreter). | **5** |
| **Making Decisions** | Change the steps a program takes based on the data it receives (conditionals). | **5** |
| **Repeating Instructions** | Get a program to do the same steps several times over (loops). | **4** |
| **Structuring Data** | Combine data into meaningful structures(compound data types). | **5** |
| **Combining Instructions** | Combine several instructions and reuse the combined instructions as a single instruction (defining functions). | **4.3** |
| **Combining Instructions (Calling Functions)** | Using several functions together to achieve more complex behaviours/sequences of steps (composing functions). | **5** |
| **Processing Collections** | Write programs that manipulate structured data in precise ways to solve a problem. | **3.5** |
| **Modules & Packages** | Use code from other developers (including open source) to construct a more extensive program from smaller modules. | **3** |
| **Don't Panic** | How to deal with unplanned errors. How to handle expected error conditions. How to assert assumptions to make our code more safe | **2** |
| **Group Project (Code Clinics)** | Learning to work collaboratively in a team to create a more comprehensive software system<br><br>Create a set of command-line tools that will automate a Code Clinic booking system. | **3.3** |

I hereby certify that these are the official results for Thobani Mjiyakho for Year 1, Module 1.

**Zakirah Arends-Whittles**
***Director of Campuses***
zakirah@wethinkcode.co.za

# WeThinkCode_ Student Progress Report

| | |
|---|---|
| **Student Name:** | **Thobani Mjiyakho** |
| **Student Username:** | **thmjiya022** |
| **Cohort:** | **2022** |
| **Campus:** | **Durban** |
| **Date:** | **7 June 2023** |

## Performance Scale Descriptors

| Performance Scale Descriptors | | | | | |
|---|---|---|---|---|---|
| **Level** | **5** | **4** | **3** | **2** | **1** |
| **Outcomes** | Exceeds Expectations | Above Expectations | Meets Expectations | Below Expectations | Expectations not Met |

**Interpreting the Outcomes**

**Exceeds Expectations:** student is able to submit project requirements well in advance before the deadline. Grading was passed/correct on the first attempt.

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# Performance Report

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| **Year 1 Module 2 - Object-Oriented Programming**<br>This module is an introduction to software design through the lens of Object - Oriented Programming (OOP). In this module, Java is introduced as the programming language. The switch from Python to Java further entrenches the fundamentals of programming. | | |
|---|---|---|
| **Project Name** | **Is the student able to:** | **Level** |
| **Unit testing in java** | Use JUnit to reinforce existing testing techniques and gain familiarity with the Java toolchain. | **5** |
| **Encapsulation in Java** | Create classes to implement behaviour, hide and govern access to data. | **5** |
| **Inheritance**<br>**Polymorphism**<br>**Composition** | Use abstraction as an instrument of design. Implement specialisation of objects at run-time, based on the abstraction designed.<br>Combine objects together to express more complex objects. | **5** |
| **Unit Testing**<br>**Encapsulation**<br>**Polymorphism**<br>**Inheritance with abstract classes**<br>**Composition with interfaces** | Apply Java constructs to design a cohesive solution. | **3** |
| **Group Project (Robot Worlds)** | Network programming using sockets; concurrency using threads; implementing a simple application protocol; serialisation and deserialization of data for transmission over the network. | **4.6** |

I hereby certify that these are the official results for Thobani Mjiyakho for Year 1, Module 2.

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**Lwazi Gumede**
***Head of Performance***
lwazi@wethinkcode.co.za

# WeThinkCode_ Student Progress Report

| | |
|---|---|
| **Student Name:** | **Thobani Mjiyakho** |
| **Student Number:** | **thmjiya022** |
| **ID / Passport number** | **9811306001083** |
| **Cohort:** | **2022** |
| **Campus:** | **Durban** |
| **Email:** | **thmjiya022@student.wethinkcode.co.za** |
| **Gender:** | **Male** |

# Performance Scale Descriptors

| Performance Scale Descriptors | | | | | |
|---|---|---|---|---|---|
| **Level** | **5** | **4** | **3** | **2** | **1** |
| **Outcome** | Excelling | On Par | | Below Par | |

**Interpreting the levels**

**Level 5(100%):** student is able to submit project requirements well ahead of the deadline. Grading was passed/correct at the first attempt. Excelling indicates that you are doing well and are able to meet your deadlines.

**Level 4(80%):** student attempted grading twice before the deadline, but passed on the second attempt. On par indicates that you are doing well and are able to meet your deadlines.

**Level 3(60%):** student is able to submit projects on time and pass at the required level. On par means that you are meeting performance requirements and show a good understanding of the curriculum.

**Level 2(40%):** student is below par because you attempted and submitted after the deadline and passed. This may indicate that you might struggle with keeping up with the curriculum.

**Level 1(20%):** student attempted to submit after the deadline and passed/failed.This indicates that major development is required. Students should make use of the interventions available to improve performance.

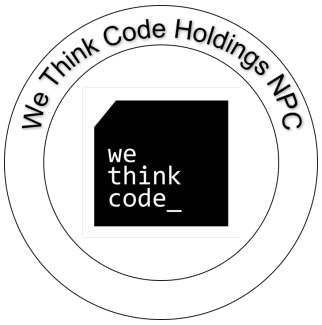
# Performance Report

| **Year 2 Module 1 - Brownfields Development**<br>This module introduces a concept which is a more common occurrence in industry, whereby developers contribute to an existing codebase by refactoring, adding new features and improving overall code quality. It also introduces the concept of CI/CD and automated testing which is an essential key in releasing production ready code. | |
|---|---|
| **Project Name** | **Level** |
| **Iteration 1** | |
| Acceptance testing | **4.8** |
| **Iteration 2** | |
| Build pipeline | **4.8** |
| **Iteration 3** | |
| Persistence | **5** |
| **Iteration 4** | |
| Simple HTTP API | **4.8** |
| **Year 2 Module 2 - Web Development**<br>This module introduces key skills and tools for industry standard web development. This module adds HTML, CSS and javascript to the students arsenal as well as frontend and server side generated views. | |
| **Iteration 5** | |
| HTML, CSS, javascript<br>Separation of Concerns. Design for change | **5** |
| **Iteration 6** | |
| HTTP, web and web apps | **5** |

# Final Outcome

| Year 2: Semester 1 Outcome | | |
|---|---|---|
| Module 1 (1 - 4) | **Brownfields** | **4.8** |
| Module 2 (1 - 3) | **HTTP, Web, HTML, CSS, persistence** | **5** |
| Module 1 & 2 | **Y2-S1** | **4.9** |

I do hereby certify that these are the official results for Thobani as of 15 January 2024.




**Head of Student Performance**
**Lwazi Gumede**
lwazi@wethinkcode.co.za

# Appendix A

# Glossary

| Project Name | Description |
|---|---|
| **Iteration 1: Acceptance testing** | Acceptance testing is a quality assurance (QA) process that determines to what degree an application meets end users' approval. |
| **Iteration 2: Build pipeline** | a set of automated processes that allow developers to reliably and efficiently compile, build, and deploy their code to their production platforms. |
| **Iteration 3: Persistence** | Manage data storage in a database. |
| **Iteration 4: Simple HTTP API** | a basic Server automation tool that lets you control the Server from external applications using simple HTTP calls. |
| **Iteration 5: Separation of Concerns. Design for change** | separating an application into distinct sections, so each section addresses a separate concern. At its essence, Separation of concerns is about order. |
| **Iteration 6: Building web apps** | application software that runs in a web browser, unlike software programs that run locally and natively on the operating system of the device. |
| **Iteration 7: Individual exercise** | This exercise consolidates several concepts covered during the semester. There are tasks in this exercise that test your understanding of:<br>• HTTP APIs<br>• Relational database design and SQL<br>• Object Persistence<br>• HTML, CSS |