

# Siyabonga Zungu

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With an honours degrees in astrophysics, and space science, majored in mathematical methods and computational physics, I have a well-rounded set of skills that can be applied to many fields. As a software engineering student at WeThinkCode, my expertise in mathematics, physics, and computational methods can help to develop software applications that require complex algorithms, numerical analysis, and simulations. I have also the opportunity to contribute to projects that involve data analysis, data science, machine learning, and artificial intelligence.

## Experience

- Data mining and virtual observatory: Identify the stars, galaxies, and quasars in multi-wavelength survey, here I used the machine learning model to classify the stars, galaxies, and quasars from each other, I had applied the linear regression, k nearest neighbor, support vector machine, decision tree, and random forest classifier.
- I have also used python and Java to build the toy robot simulation at WeThinkCode.

### Demonstrator/Tutor

University of KwaZulu-Natal, Durban

2020-2022

- Assisting first year students with physics practical's at the laboratory

## Education

1. Bachelor Science: Mathematics, and Physics  
University of KwaZulu-Natal (2016-2018)
2. Bachelor of Science Honors: Astrophysic and Space science  
University of KwaZulu-Natal (2019-2019)
3. Bootcamp Certificate: [Python for Data Science and Machine](#)
4. Boot camp certificate: [Master SQL For Data Science](#)
5. Software Engineering Certificate WeThinkCode (2022-present)



## Technical Skills

- Linux
- Python | Java |
- SQL
- Excel

## General Skills

- Git & GitHub
- Python & Java
- Data Processing
- Data Visualization
- Data Structures and Algorithms
- Machine Learning

## Soft Skills

- Ability to work independently
- Good collaboration skills
- Hard worker and fast learner

## References

- Supervisor: Mr Z Mtumela,  
[zolilemtumela@gmail.com](mailto:zolilemtumela@gmail.com)  
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- Software Developer: Mr S Mbatha  
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