



# Zwavhudi Mulelu

Electrical and Information Engineering, Final Year

- Jan 24, 1997
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## About Me

A results-orientated student looking to pursue a career in software development. I am an independent and self-motivated individual with programming and communication skills. I have enthusiasm to learn new things and always ready to give my best effort in any work assigned.

## Programming Skills

- Javascript, HTML, CSS ● ● ● ● ●
- C/C++ ● ● ● ● ●
- Latex ● ● ● ● ●
- Python ● ● ● ● ●
- MATLAB ● ● ● ● ●
- SQL ● ● ● ● ●
- IOT/Arduino ● ● ● ● ●

## Software Tools

- MS Office ● ● ● ● ●
- Figma ● ● ● ● ●
- Simulink ● ● ● ● ●

## Interests

Front-End design. Web development. Dance. Creativity. Photography and Videography. Tech content creation. Always Looking forward to be indulge in technical courses. Eager to learn new things.

## Education

- In Progress** **BSc(Eng) Electrical and Information Engineering** University of the Witwatersrand  
Main subjects: Software Development, Data Intensive Computing in Data Science, Data & Information Management, Network Systems.
- 2015 – 2018** **BEngSc(BME) Biomedical Engineering** University of the Witwatersrand  
Main subjects: Chemistry, Anatomy, Physiology, Software Development I, Signals and Systems, Microprocessors, Electronics, Biomedical Measurements Instrumentation and Imaging.
- 2010 – 2014** **High school** Gondolikhethwa Christian School  
Main subjects: Maths, Physical Sciences, Life Sciences, English FAL, Tshivenda HL, Geography.

## Work Experience

- Dec 2019 – Jan 2020** **Research Assistant** University of the Witwatersrand  
Researched on multi-channel cognitive radio network with energy harvesting secondary users. We developed a model to obtain the maximize its throughput using MATLAB.
- Mar 2019 – Oct 2019** **All Res Tutor** University of the Witwatersrand  
Tutoring & Mentoring first year students. The courses tutored were all first year Engineering courses.
- Jan 2019 – Feb 2019** **FYE Ambassador** University of the Witwatersrand  
Mentoring first year students and helping them navigate through various aspects in the University environment as well as surviving in this environment



## Projects

- 2020** **Web App: Household Bill Splitter**  
*Description: In a group of 4, we developed a Web application that enables users to split household bills.*  
*Technologies used: JavaScript, HTML and CSS. Bootstrap. Express framework. The application was hosted on Azure server. Travis CI was used as a build server and GitHub for version control and project management*
- 2020** **Web App: Google Maps Store Locator**  
*Description: Developed a website that locates Starbucks stores on a map.*  
*Technologies used: Figma for Front-end design. JavaScript, HTML and CSS. Google Maps API to obtain a map. GitHub for version control*
- 2019** **2D Game: Space Invaders**  
*Description : In a group of 2, we developed a 2D game with 2 players and an armada of aliens. To win, players had to kill the aliens before they invaded a player's position.*  
*Technologies used: c++. SFML library for graphics. GitHub for version control*

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## Languages

 Tshivenda ● ● ● ● ●  
 English ● ● ● ● ●

## Profiles



<http://linkedin.com/in/zwavhu>



<https://github.com/Zwavhu>



<https://bit.ly/3gnERv7>



<https://bit.ly/2Zz6VoP>

## Awards

|      |   |                                 |
|------|---|---------------------------------|
| 2020 | 2nd Place JCSE Geek-Trivia Quiz challenge | JCSE                            |
| 2019 | 3rd Place MIT Global Startup Labs Program | MIT global startup labs         |
| 2015 | University Entrance Scholarship           | University Of the Witwatersrand |
| 2014 | Top matriculant                           | Gondolikhethwa Christian School |

## Extra-Curricular Activities

|  |  |
|--|--|
| Leadership and Professional Development (2018) | Was part of the Maitazwitoma student society as a Cultural Officer. Responsibilities were planning cultural events for the society members |
| Photography                                    | Expressing my creativity through photography   |

## References

|                          |   |
|--------------------------|---|
| <b>Prof. Takawira</b>    | <b>School of Electrical and Information Engineering</b><br><i>Tel: 011 717 7243.</i><br>Email: Fambirai.Takawira@wits.ac.za |
| <b>Neo Cindi</b>         | <b>Development and Leadership Unit</b><br><i>Tel: 011 717 9220.</i><br>Email: Neo.Cindi@wits.ac.za                          |
| <b>Ivhani Maselesele</b> | <b>Mentor</b><br><i>Tel: 079 887 3114.</i><br>Email: ivhani.maselesele@gmail.com  |