

Tiisetso Mphuthi

Facilitator at Idyee/Reacoda

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Summary

I am former Physics student and a self-taught software developer. I have a passion for Space Exploration.

Experience

Facilitator

January 2016 - Present

My responsibility as a facilitator at Reacoda is to introduce and mentor High School and Undergraduates students in computer programming. I guide them in web and mobile application development using MIT app Inventor, Material Design, Bootstrap, and ReactJs.

Founder and CEO

September 2015 - Present

Idyee (Pty) Ltd is a Software and Hardware company. We custom design and develop Web and Mobile (native and hybrid) applications. We are developing a Qi compatible wireless charger for smartphones.

I am in charge of the day to day operation of the business. I am also the Front-end software developer. I am head of the Hardware division.

Intern at PwC South Africa

July 2017 - July 2017 (1 month)

A five-day Internship on cyber-security for software developers. As developers we were trained in building more secure applications with less vulnerabilities. We were trained on the importance of using VPNs to protect our users personal information and to ensure that they access public Wi-Fi safely when using the applications we develop.

The importance of writing clean and more "complex" code in order to prevent manipulation of source codes to gain unauthorized access to high-privileged users was highlighted and demonstrated.

During the workshop we practically built and cyber-attacked demo software as a way of showing how vulnerabilities can allow one to gain unauthorized access to a software application.

We were trained on the best practices for user behaviour on the World Wide Web.

Candidate at IBA Global

2015 - 2016 (2 years)

Research Assistant at University of Pretoria

February 2011 - August 2015 (4 years 7 months)

I was tasked at maintaining the Sputtering Machine used for making Schottky diodes. In addition to maintaining it, I used it to grow/manufacture Schottky diodes and then performing magnetic and electrical characterisations (analysing). I compiled scientific reports on the results obtained.

I have trained both undergraduate and postgraduate student to use the Sputtering Machine.

Teaching Assistant at University of Pretoria

February 2011 - 2015 (4 years 11 months)

I was responsible for preparing and marking tests and tutorial worksheets for First Year students. I was tasked at helping the students to understand the Physics concepts as it is according to the curriculum.

I setup Physics demonstrations/practicals. It was my duty to make sure that the students understood the purpose and the Physics concepts that were demonstrated.

Substitute Teacher

July 2014 - December 2014 (6 months)

I was responsible for teaching General Science to the Grade 6 students. The lessons involved a theory session in which the principles of Physics were explored. At the end of each lessons, a practical demonstration of the principles will be done with the physical participation of the students.

Education

University of Pretoria/Universiteit van Pretoria

Bachelor's Degree, Physics, 2010 - 2014

Activities and Societies: Schrodinger's Cats (Physics Society)

Free Code Camp

Full Stack Web Development Certification, Computer Software Engineering, 2016 - 2017

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[Contact Tiisetso on LinkedIn](#)