

## Julien Cedric Nyambal

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### EDUCATION

#### **University of Zululand**

*Bachelor of Science: 2012 - 2014, Computer Science and Mathematics,*

#### **University of the Witwatersrand**

*Bachelor of Science(Honours), Passed with Distinction: 2016, Computer Science,*

#### **University of the Witwatersrand**

*Master of Science: 2017, Computer Science: Computer Vision, Machine Learning,Full Time, Expected graduation: 2019*

### UNDER-GRADUATE PROJECTS

#### **Project One - 2013 (Semester Project under Software Engineering: Group):**

SmartDrive has been designed to monitor the usage of the mobile phone while driving a car. SmartDrive blocks incoming SMSs and calls whilst the user is driving. SmartDrive has been built for Android devices. The system has been developed for android devices and has been written using Android SDK. I was the project leader, we delivered the system on time with minimal bugs.

#### **Project Two - 2014 (Semester Project: Individual):**

Online (Indigenous) Health Forum , name of my project has been developed to bridge the gap of languages by allow people using different to exchange ideas using the forum as if they were all writing the same language . This forum has been develop using the Liferay platform. In this project, my aim was to use Liferay framework to dynamically get the words and sentences from one side of the communication and translate it to the corresponding language on the other side. Java was mainly used with the Translator API from Microsoft.

### HONOURS PROJECT

**Project Three - 2016:** Developed an Automated Parking Spot Detection using some Computer Vision and Machine Learning techniques.

I have used opencv with Python to predict the occupancy of some parking spot given a parking spot. I trained my dataset using Nvidia Digits under Caffe.

### MASTERS PROJECT

**Project Three - 2017:** Improving the Honours project for automatic detection and comparison between Support Vector Machines and Convolutional Neural Networks.

### COMPUTER SKILLS

**Languages:**Python(Preferred), C++(Basic), Java(Basic), SQL, L<sup>A</sup>T<sub>E</sub>X, Shell (Bash), Matlab.

**Web Development:** HTML, CSS, PHP, Apache.

**Applications:** Eclipse, Visual Studio, Git, VirtualBox, MySQL, Adobe Dreamweaver, Liferay, Android Studio, Nvidia DiGITS, Caffe (Framework), Scikit-learn, PBS (Cluster Computing).

**Operating Systems:** Linux (Preferred), Windows.

<b>EXPERIENCE</b>	<b>Tutor</b> 2013 Java Programming Introductory to Computing	Department of Computer Science University of Zululand
	<b>Tutor</b> 2014 Java Programming Introductory to Computing	Department of Computer Science University of Zululand
	<b>Tutor</b> 2017 Introduction to Data Structures and Algorithms	School of Computer Science and Applied Mathematics University of the Witwatersrand
<b>AWARDS</b>	<ul style="list-style-type: none"> <li>• <b>2012</b> Scholarship (Rector's fund), University of Zululand</li> <li>• <b>2013</b> 2nd Best Software Engineering group Project Leader</li> <li>• <b>2014</b> Best 3rd year Computer Science student in Faculty of Science in the University of Zululand</li> <li>• <b>2016</b> CSIR - DST Scholarship, no work-back commitment</li> <li>• <b>2016</b> ABSA - Most Commercially Viable Project - Computer Science</li> <li>• <b>2017</b> CSIR - DST Inter-Programme Bursary, no work-back commitment Award</li> </ul>	
<b>LANGUAGES</b>	<ul style="list-style-type: none"> <li>• <b>French</b> Native (Written and spoken)</li> <li>• <b>English</b> Fluent (Written and spoken)</li> </ul>	
<b>REFERENCES</b>	<ol style="list-style-type: none"> <li>1. <b>Name:</b> Prof. Turgay Celik  <b>Institution:</b> University of the Witwatersrand  <b>Position:</b> Professor  <b>Unit:</b> School of Computer Science and Applied Mathematics  <b>E-mail:</b> Turgay.Celik@wits.ac.za</li> <li>2. <b>Name:</b> Dr. Richard Klein  <b>Institution:</b> University of the Witwatersrand  <b>Position:</b> Associate Lecturer  <b>Unit:</b> School of Computer Science and Applied Mathematics  <b>E-mail:</b> Richard.Klein@wits.ac.za</li> <li>3. <b>Name:</b> Dr. Pragasen Mudali  <b>Institution:</b> University of Zululand  <b>Position:</b> Senior Lecturer  <b>Unit:</b> Department Computer Science  <b>E-mail:</b> Mudalip@unizulu.ac.za</li> </ol>	
<b>EXTRA- ACTIVITIES</b>	<ul style="list-style-type: none"> <li>• <b>2012 - 2014</b> Playing tennis for the University of Zululand Team (USSA 2012 - USSA 2013)</li> <li>• <b>2014</b> Elected Chairperson Computer Science Society University of Zululand</li> <li>• <b>2014</b> Elected Vice-Chairperson International Student University of Zululand</li> <li>• <b>2016</b> Tennis player - Wits</li> <li>• <b>2017</b> Tennis player - Wits</li> </ul>	
<b>HOBBIES</b>	Computer Programming, Sport, Reading, Traveling, Opening electronic stuffs.	