

# CHRISPINE O. CHIEDO

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## **OBJECTIVE:**

Understand the design and implementation of Distributed Systems and their modern application areas.

## **PROFILE:**

A technology-savvy academic with very strong analytical and leadership skills. Engaged in technical training, software engineering and consulting. Passionate about computing and engineering education. Keen on imparting technical knowledge and skills through training.

## **KNOWLEDGE AND SKILLS:**

- Extensive knowledge of Linux (Ubuntu) and related UNIX-like systems (as well as Windows).
- More than average comfort with C/C++ and Python programming languages as well as different programming paradigms (object-oriented/structured/functional).
- Knowledge of machine learning/data science techniques using R and various Python libraries (NumPy, Scikit-Learn, Orange, etc).
- Familiarity with Google Cloud Platform (GCP) and Amazon Web Services (AWS).
- Experience with Apache Spark (using the PySpark python module) and Tensorflow, Google's open-sourced machine learning library.
- Familiarity with Agile Software Development methodologies like Scrum.
- Hardware hacking skills using Arduino and Raspberry Pi.
- Ethical hacking/Penetration testing skills using Python and Kali Linux.
- Knowledgeable in the Django, Laravel and MEAN stack Web Development Frameworks.
- Comfortable with Git and GitHub (My GitHub repository address is: <https://github.com/theafricanengineer> ).

## **EDUCATION:**

**University of Nairobi, School of Computing and Informatics**

**2016~**

Master of Science (Msc.) in Distributed Computing Technology.

**Moi University, School of Engineering**

**2007 - 2012**

Bachelor of Engineering (B.Eng.), Electrical and Electronics Engineering. Majored in Computing Systems.

## **RESEARCH INTERESTS:**

Distributed Systems, Cloud Computing, Machine Learning, Internet of Things (I.o.T), Smart Grids, Cyber-Security, Embedded Systems, Technical Education.

### **PROFESSIONAL BODY:**

**Engineers Board of Kenya (EBK)** – *Registered Graduate Engineer*, Reg. Number: **B 9310**.

### **PROFESSIONAL EXPERIENCE:**

**Zetech University, Department of Engineering** **2015 - 2017**

*Instructor* for Electrical and Electronics Engineering. Teaching Electrical/Electronic Courses.

*Club Patron*, Zetech Engineering Club (ZEC). Oversee and direct the Club's activities and Engineering Exhibitions.

**Kenya Institute of Professional Studies, ICT & Engineering Department** **2013 - 2015**

*Head of Department (HOD)*, ICT and Engineering. Responsible for ensuring the smooth execution of the departmental activities. Oversaw the growth of the number of students in the department by 400%. Initiated the construction of a new Engineering Workshop to accommodate the increased number of students.

*Instructor for Electrical Engineering and Computer Science*. Taught Electrical Engineering (EE) and Computer Science (CS) courses.

**Kenya Meteorological Department, ICT and Engineering Departments** **2012**

*Intern*. Assisted the ICT and Engineering teams in troubleshooting of technical problems within their respective departments on a day to day basis. Learned teamwork skills.

**West Kenya Sugar Company Limited** **2011**

*Intern*. Interned in the Electrical and Instrumentation Workshops. Also assisted in network administration.

**Shamoni Secondary School** **2006 - 2007**

*Mathematics, Physics and Chemistry Teacher*. Taught junior high school students the stated subjects.

### **PROFESSIONAL SERVICE:**

*Vice Chancellor's Task Force on Engineering Curriculum Review*. Zetech University. March-July 2016

*KIPS 2014 Graduation Committee*. Kenya Institute of Professional Studies. May - October, 2014

### **PROFESSIONAL AWARDS AND RECOGNITION:**

*Problem Solving Award*: Awarded for excellence in the problem solving category. Zetech University. December 2016.

*Extra Mile Award*: Awarded for excellence in the extra mile category. Zetech University. December 2016.

### **TECHNICAL EVENTS ATTENDED:**

*East Africa Open Data Conference.* Strathmore University, Nairobi. 17<sup>th</sup> ~ 18<sup>th</sup>, August, 2016.

*IEEE Engineering and Business Forum: Hacking Innovative Technology and Engineering Solutions.* Strathmore University. Nairobi. 29<sup>th</sup> and 30<sup>th</sup>, October, 2015.

*City-Next: A Smart City Initiative.* Launching of the Smart City Technologies by **Microsoft Kenya**. Norfolk Hotel. Nairobi. 10<sup>th</sup> December, 2014.

*Who's Your Data's Daddy? Is Privacy and Security Online possible in Kenya?* Barcamp Nairobi 2014 Edition. iHub, Bishop Magua Center. 30<sup>th</sup> August, 2014.

### **COURSES TAUGHT:**

**DCE 204: Computer Operating Systems** **2016 - 2017**  
*Zetech University, Nairobi, Kenya*

Introduction to operating system concepts and implementation paradigms.

**DEE 300: Structured Programming** **2016 - 2017**  
*Zetech University, Nairobi, Kenya*

Introduction to structured programming concepts using the C programming language.

**DEE 201: Introduction to Computation** **2016 - 2017**  
*Zetech University, Nairobi, Kenya*

This course introduces students to the fundamental concepts of computer science and computational thinking through the Python programming language.

**DEE 205: Microprocessor-based Systems** **2015 - 2017**  
*Zetech University, Nairobi, Kenya*

Introduction to assembly language programming and microprocessor-based systems. The unit is taught using the Intel 8085 microprocessor.

**DEE 118: Digital Electronics** **2015 - 2016**  
*Zetech University, Nairobi, Kenya*

Introduction to the principles of design of digital electronic systems.

**Web Design and Development** **2013 - 2014**  
*Kenya Institute of Professional Studies, Nairobi, Kenya*

This course taught students how to build dynamic websites using HTML, CSS, JavaScript, PHP, MySQL and the Apache Web Server.

### **REFEREES:**

Available upon request.