

CURRICULUM VITAE

Personal Details

NAME	Pauline Wambui Wangunyu
NATIONALITY	Kenyan
MARITAL STATUS	Single
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EDUCATION BACKGROUND

MASTERS DEGREE

INSTITUTION	University of Nairobi(CEBIB)
PERIOD	Oct 2011 - present
DEGREE	MSc Bioinformatics

UNDERGRADUATE DEGREE

INSTITUTION	University of Nairobi
PERIOD	2005- June 2009
DEGREE	Bachelor of Science Computer Science

HIGH SCHOOL (KCSE)

INSTITUTION	Nakuru High School
PERIOD	2000-2003
MEAN GRADE	A Plain

Other Courses/ Certificates

Certificate of Attendance

3rd African Outsourcing & Contact Centre Conference
Nairobi, Kenya 27 -28 November 2007

Awards

Cash prize for emerging the top student in KCSE Nakuru High School 2003 and second best student in Rift valley Province.

Work Experience

- Tutorial fellow at the School of Computing and Informatics, University of Nairobi. I have taught undergraduate students in distributed systems, programming methodology and object oriented programming. I also supervise second year students' projects.(Nov 2009- Present)
- Did my internship at the United Nations Department for Economic Affairs for a period of three months (August - October 2008) where I was involved in research on ICT development for parliaments especially in Africa, Updates of UNDESA websites and conducting Systems audit
- Edited a research paper done by Flavio Zeni, United Nations Department of Economic and Social Affairs, Chief Technical Advisor, on Legal and Legislative Informatics in Africa presented in a conference in Brussels 2008
- Was part of the team that set up a LAN at the Kenya Society for the Blind in Nairobi West as part of the University of Nairobi Corporate Social responsibility

PROJECTS UNDERTAKEN

MSc Project(Ongoing)

Homology modeling of 3D structures of *Plasmodium falciparum*'s Merozoite Surface Protein 3 & 6

Final Year Project

A Pattern Matching Based Recognition of Kenyan License Plates System using Matlab and C#

Abstract

A License Plate Recognition (LPR) system is one kind of an Intelligent Transport System and is of considerable interest because of its potential applications in highway toll collection and traffic monitoring systems. The project addressed the problem of an LPR system for Kenyan plates. A general NPR consists of four stages; Image acquisition and processing, License plate extraction, License plate segmentation and License plate recognition.

The application developed achieved a predictive accuracy of 86.4% using peak to valley algorithm for segmentation and optical character recognition using template matching algorithm.

Research Papers

I wrote a paper which I presented in an international conference, ICCIR'10 which took place in Protea hotel, Kampala. The paper was titled - License Plate Recognition System: Localization for Kenya, which was coauthored with Mr. Elisha T. Opiyo and Prof. A.J. Rodrigues.

Workshops /Seminars Attended

UNES proposal writing workshop at the University of Nairobi, 2011

Pivot East held at the Ole Sereni hotel, 2012

TECHNOLOGY PROFICIENCY

Database Systems	MSSQL server, Oracle, MySQL, MS Access
Programming Languages	Perl, Python, Matlab, C, C++, Java, Structured Query Language(SQL), C#, PHP, R
Operating Systems	Windows OS, Ubuntu, Fedora, Suse, Mac Os

REFERENCES

Prof. Tony Rodrigues

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