

## CURRICULUM VITAE

### Career Objective

*To be a world class Data Analyst, Protector and technology expert, transforming life both in industry, academia, and in social spheres by offering and developing transformative technological tools and reengineering the delivery of data in a digital, secure and dynamic manner to bring about impactful change.*

### Competencies, Passion and expertise

- Leveraging on Technology in delivery of efficient, effective and impactful results
- Software Development, software product design, systems design science
- Leadership and administration. I have a Senior Management Courts from Kenya Schools of Government (05.09.2022 – 04.11.2022). I have been Head of Department, Lead advocacy officer, and Ag. Director as well.
- Youth matters Advocacy, Mentorship, Training and Champion
- Presentations development expert having been a report presenter in Ajira Project as well as a lecturer using dynamic presentation platforms.
- e-Learning content development and management: *Done for Kenya School of Government Baringo, Public Service Commission of Kenya.*
- Curriculum review and development: *Actively participated in the curriculum review of Bachelor of Business Information Technology (BBIT), Diploma in Business Information Technology (DBIT), Bachelor of informatics (BSc. IF) of Strathmore University and Bachelor of Science IT of Africa International University and Pioneer International University and also Developed of Diploma in Information Technology (DIT) of Africa International University*

### PERSONAL DETAILS

*Africa International University P. O. Box 24686, 00502, Nairobi-Kenya, [marangjared@gmail.com](mailto:marangjared@gmail.com),*

<b>Name</b>	<b>D.o.b.</b>	<b>Marital Status</b>	<b>Nationality</b>	<b>Phone</b>
Mayieka Jared Maranga	1984	Married	Kenyan	0724352111

### EDUCATION

- 2019 to date: PhD. IT Security & Audit candidate, Kabarak University. At thesis Stage.  
**Thesis Topic:**  
*System Dynamic Model for Management of Lung Cancer Caseloads in Kenyan Healthcare System using Disease Reporting Pattern Analysis.*
- 2010 – 2012 Master of Science in Information Technology (Msc. IT), Strathmore University, Information Systems Management-Major and Software Engineering-minor.  
**Thesis:** Integrated Access Control Security System Model for

Institutions of Higher Learning in Kenya: Case of Strathmore University

- July 2005- March 2009: Bachelor of Business Information Technology, Strathmore University, Upper Second Division

#### OTHER TRAINING

- Sept – Nov 2022 **Senior Management Course** at Kenya School of Management-Baringo
- Sept 2021 – Jan 2022 Business and Sustainability course, European Business University specializing in Circular Economy, SDGs and Systems Thinking
- June - Dec 2020 **Data Science Specialization** of Johns Hopkins University through Coursera (R Programming, Getting and Cleaning Data, The Data Scientist’s Toolbox etc.)
- January -March 2019 **Big Data Engineer - Mastery Award for Educators 2018 & Big Data Engineer - Explorer Award for Educators 2018** Proven expertise to use Big Data methodologies to collect & analyze large amounts of data from different sources, using IBM Watson Studio and Open-Source Tools. The author has developed assets that teach students topics such as Apache Hadoop, Ambari, Spark, Big SQL, HDFS, YARN, MapReduce, ZooKeeper, Knox, Sqoop, and HBase.
- April 2017 Global Association for Transformational Education, Certified Curriculum developer for transformational Education.
- April 2013 D-Link certified trainer on Switching and Wireless communication
- 2012 May SAS trainer (a **Statistical Analysis System** certification from SAS Company is South Africa in collaboration with University of Nairobi.
- Jan 2012 – November 2012 Peer review training at Academic Development Unit (ADU) of Strathmore University
- 2011 – 2014 e-Learning development and content development at Strathmore University

#### WORK EXPERIENCE

- May 2021 to date: **Senior Public Policy Advocacy Officer – eGovernment, Ajira Program-KEPSA**  
**Duties:**
  - Ensured effective planning and execution of all activities in Program 3- eGovernment, including planning and coordinating partner meetings and seminars with various stakeholders;
  - Overseeing the delivery of a pilot for the judiciary to transcribe court

proceedings through business process outsourcing firms (BPO) & documenting lessons that will allow scale up to all the courtrooms in the country;

- Providing project management and support to the entire judiciary pilot project which includes but is not limited to management of the BPO firm(s) that will deliver the services, oversee and implement quality assurance mechanisms of the process and deliverables as well as evaluation of the BPO performance to ensure that the transcription services are meeting predefined standards;
- Leading the development of a blueprint for other MDAs to outsource work to gig workers through digital platforms;
- Developing and manage relationships required to scale this pilot across other Government Ministries, Departments and agencies (MDAs);
- Maintain accurate and updated project documentation throughout the program lifecycle;
- Liaise with government officials throughout the engagement through various means such as group discussions, surveys and self-evaluations to evaluate the process and course correct as needed;
- Drive the program values and philosophy through all activities;
- Performing any other duties as may be assigned in line with this position.

- November 2021 **Taskforce Member - Connected Kenya 2022 Summit by ICT Authority-Kenya**
- March 2020 to date **Remote Teaching and Learning committee member** steering committee on remote teaching and learning at Africa International University.
- Nov 2015 to Date **Assistant Lecturer and Ag. HOD Informatics and Information Technology (IIT) department** at Africa International University: curriculum development, IS Project coordination, Digital Skills development, mentorship program curriculum development, digital marketing of the school programs, Teaching and Learning coordination and teaching, member of the Leadership and Governance center, Member of the University Senate etc. **(On sabbatical leave May 2021 – Dec 2023)**
- Sept 2016 to Date **Ag. Mentorship head at Africa International University:** Sourcing for

- funds, development of guidelines and organizing the activities related to Youth Mentorship at AIU and across Kenya.
- Jan 2015 to 2020: Adjunct Faculty, School of Science and Technology, Pioneer International University.
  - Jan 2015 to April 2016: **Adjunct Lecturer**, School of Science and Technology, United States International University, Africa.
  - May 2012-Oct 2014: **Assistant Lecturer**, Faculty of Information Technology, Strathmore University
  - 2009 - 2012 **Graduate Assistant**, Faculty of Information Technology, Strathmore University
  - May – August 2008 **IT Technical support staff and system development**; on IDPs compensation exercise, User training, Network operation monitoring: Co-operative Bank/ G4S Securities.
  - January to May 2008: **Network & Customer user support** and Network Maintenance/Support Swift Global Kenya Limited,
  - 2007: **Lab Assistant, Student Database information maintenance**, Network Security and Back-Up and Website Maintenance. Strathmore University,

#### **ACADEMIC CONTRIBUTIONS**

- Leader in the establishment of the Digital Skills Centre of Africa International University which host Ajira digital club engaging in Software development
- Team member in Africa International University's School of Business and Economics in Curriculum Development of BSc. IT, MPA, DPA and DBA: up to February 2021
- E-Learning content generation and digitization at United States International University-Africa: 2016
- Team member in Information Technology (Degree and Diploma) curriculum development of Strathmore University and Africa International University: 2012 - 2014
- Integration of University Education with Volunteer services among students in Strathmore University: 2014
- Guided and participated in the development of an online Attachment system for Strathmore University: 2013 - 2014.
- Advice on Volunteer spirit in university curriculum with United Nations Volunteer (UNV): 2013
- Team member development of Information Systems Project process and procedures for undergraduate and diploma courses of Strathmore University 2010 – 2014

## RESEARCH AND PUBLICATIONS

- Dorothy, B., & Mayieka, J. M. (2020, June). EFFECTS OF CYBERCRIME ON OIL AND GAS INDUSTRY. Global Scientific Journal, 8(6), 322 - 331. Retrieved from [http://www.globalscientificjournal.com/researchpaper/EFFECTS\\_OF\\_CYBERCRIME\\_ON\\_OIL\\_AND\\_GAS\\_INDUSTRY.pdf](http://www.globalscientificjournal.com/researchpaper/EFFECTS_OF_CYBERCRIME_ON_OIL_AND_GAS_INDUSTRY.pdf)
- Mayieka, J. M., & Masese, N. D. (2019, August). Emerging Issues in Cyber Security for Institutions of Higher Education. International Journal of Computer Science and Network, 8(4), Online. Retrieved from <http://ijcsn.org/articles/0804/Emerging-Issues-in-Cyber-Security-for-Institutions-of-Higher-Education.html>
- Mayieka J., & Omwenga, V. (Submitted). Integrated Access Control Security System Model for Institutions of Higher learning in Kenya: Case of Strathmore University.
- Mayieka Jared Maranga (To be submitted). The role of Precision Farming in improving food security in Kenya.

## PROJECTS

- Guided the development of a Dynamic System for the Kenya Private Sector Alliance (KEPSA) to manage content and members
- Developing user requirements, Mentoring, Testing, Implementation, and guidance of the development of Graduation app, Industrials Attachment System, Student Council Voting System, Graduation Process Application System, Mentorship System, HR Leave Management System at Africa international University (Jan 2021 to date).
- Guided the development, Testing, and Implementation of an Attachment Management Information System for Strathmore University Kenya (2013).
- Development, Testing, implementation, and commissioning of an Onsite Training System (E-Learning) for the Public Service Commission of Kenya (2010)
- Development, installation, and training on library management system for the Kenya School of Government-Baringo
- Development, Testing, implementation, and commissioning of a Library Management System for the Public Service Commission (PSC) of Kenya in 2010)
- Development, Testing, implementation, and commissioning of a Computerized Library Security System (Anti-theft system) for Kenya School of Government – Baringo (2010)
- Development, Testing, implementation, and commissioning of an Institution Management System for Kenya School of Government - Baringo (2009)
- Development, Testing, implementation, and commissioning of a Clinic Management System for Iranian Red Crescent Societies-Nairobi

## CONFERENCES AND SHORT TRAININGS

- 15<sup>th</sup> – 19<sup>th</sup> April 2019: Career Service Officers training by the Ministry of education at Kenya Education Management Institute
- 24<sup>th</sup> – 28<sup>th</sup> September 2018: Ajira Online Digital Skills Trainer Program (ToT) conducted by the Ministry of ICT and ICT Authority held at University of Nairobi (UON).
- 14<sup>th</sup> – 16<sup>th</sup> March 2018: The 2018 Africa International University International conference:  
Theme: Ensuring Quality Education through Ethical and Value-Based Principles: A Focus on Sustainable Development Goals (SDG4).
- November 2016: Higher Education Summit held at Sarova Hotel. Theme: Microsoft can be useful in higher education
- August 2016: Organized youth mentorship program at Africa International University attended by over 1000 young people.
- July 2015: Grant Proposal Writing Presentations by the Institute of Leadership and Professional Development, Daystar University
- August 2014: Volunteer Integration in Curriculums of institutions of Higher Learning in Kenya at United Nations-Gigiri
- June 2012: Open Data for Development Camp Nairobi 2012
- Sept 2011, 2013, 2014 Strathmore University's 12th, 13th, and 14th ICT Conference
- September 2010: Strathmore annual ICT Conference presentation, Title: An integrated Access Control Security System,

## TEACHING EXPERIENCE AND AREAS

I am a competent IT lecturer, all-round skilled and dedicated. Among other units/subjects and not limited to these, I have specialized in the following areas:

### Diploma

- Business Applications Software, Computer Fundamentals and Troubleshooting, Programming Concepts/Computer Programming/ Introduction to Programming (Using C or C++ or Java or C#), Object oriented Programming, Database Systems, Systems Analysis and Design etc.

### Degree

- Computer Fundamentals and Troubleshooting/ Introduction to Computers, Telecommunication and networks, Introduction to Programming (Using C or C++), Database Systems (with either SQL Server, mySQL or Access DBMS), Systems Analysis and Design, Data Structures and

Algorithms (using C and C++), Database Systems, Multimedia Systems and Applications, Computer Operating Systems, Distributed Systems, Digital Wireless Communication, Decision analysis, etc.

#### **LEADERSHIP SKILLS AND RESPONSIBILITIES**

- 2018 to date : Ag. Head of Africa International University's Ajira Centre which deal with innovation and of young people especially on the digital space.
- 2016 to date : Ag. Mentorship Director, Africa International University
- 2016 to 2019 : Catholic Men Association Treasurer- Outering Deanery, Archdiocese of Nairobi.
- 2013 to 2016 : Catholic Men Association Secretary, Archdiocese of Nairobi
- 2012 to 2014 : Community Based Attachment Coordinator, Faculty of Information Technology Strathmore University
- 2010 to 2013 : Catholic Men Association Secretary General- Eastern Deanery, Archdiocese of Nairobi.
- 2008: Team leader, IDPs compensation software development and Compensation Exercise, Co-op bank/G4S

#### **ACHIEVEMENTS**

- 2010; Developed an Institution Management System, Internal email System and a Website for Government Training Institute-Baringo
- 2009; Developed a Student Management System for Tendere Secondary School in my final Information System Project at Strathmore University, Using MS SQL Server 2005 database. Supervised by Mr. Peter Okech Odhiambo
- 2008; Project Proposal Paper on Matatu Terminus Management System for Nairobi City Council, supervised by Dr. Freddie Acosta, Director Academic and Research, Faculty of Information Technology, Strathmore University.
- 2005; Best Student in History of Tendere Secondary School in the KCSE Results.

#### **AREAS OF INTEREST**

- i. Big Data engineering and Data Science
- ii. Online learning (eLearning) technologies and content generation
- iii. Distributed systems and applications design and application
- iv. Mentoring and mentoring management
- v. Online marketing and advertisement using web tools.
- vi. Access control security components especially in institutions of higher learning

vii. Information systems Management and coordination

**HOBBIES**

- Singing
- Attending Family life seminars and organization
- Playing Basketball and Handball



## REFERENCES

1. Dr. Vincent O. Omwenga  
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