

JOSHUA KIPROTICH MUTAI

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Computer Engineer, Lecturer in Computer Science, ICT Consultant

PROFESSIONAL SUMMARY

A Meticulous academic professional, Educator, researcher as well as ICT Engineer and Consultant. Known for implementing innovative teaching and learning methods to increase student engagement, I appreciate challenges that trigger research in ICT. I always seek for opportunities where I can leverage my 7+ years as accomplished Computer Technology Engineer and 5 years of academic experience to add value to the growing ICT.

EXPERIENCE

JAN 2021 – TO DATE

FULLTIME LECTURER, COMPUTER SCIENCE, KABARAK UNIVERSITY

Teaching, Mentorship, and Research in Computer science. Assessment and evaluation of students' coursework, Supervision of undergraduate projects, collaborations and curriculum reviews.

SEPT 2019 – APRIL 2021

PART-TIME LECTURER, LAIKIPIA UNIVERSITY

Taught and assessed assorted undergraduate course in Computer science (BCS) and Information and Communication Technology (BICT). Courses taught included; Fundamentals of Database Management Systems, Advanced Database Systems with Oracle, Special Topics in Computer Science and web programming. I also participated in supervision and assessment of students' final-year projects.

MAY 2018 – DECEMBER 2021

PART-TIME LECTURER, KABARAK UNIVERSITY

Taught and evaluated diploma and undergraduate students in Information Technology (BIT), Computer science (BCS) and Computer Security and Forensics (BSCSF). Courses taught included; Database Systems with Oracle, Web application development, Website administration, Network Security and Management, Cryptography and Data mining and warehousing. Was charged with supervision and evaluation of final-year Projects for Diploma in IT and Diploma in Computer Science students. Participated in Curriculum review for Diploma in IT.

SEPTEMBER 2013 – MAY 2018

IT PROJECT MANAGER, MICROLOGIC SOFTWARE TECHNOLOGIES

Led planning and deployment of financial ERP systems. Managed phases of ERP deployment projects by ensuring time, scope and budget were kept. I was directly charged with Management of relationship with Company's ERP clients. Created and maintained project documentation. Led development and deployment of project teams. Organized and administered trainings and seminars for staff and end-users. Led incident response team.

JANUARY 2011 – APRIL 2013

SUPPORT ENGINEER, MICROLOGIC SOFTWARE TECHNOLOGIES

Supported and maintained data and database systems to meet clients' business delivery requirements. Ensured data integrity was maintained during and after data migration between systems. Supported roll-out of new application upgrades. I was a member of incident response team. Provided frontline technical support for ERP clients on daily basis.

JANUARY 2010 – DECEMBER 2010

FULL-STACK WEB DEVELOPER, EKOM DATA LIMITED

Designed and developed front end web architectures, Created back end server and database interactions. Tested, optimized and deployed web applications in accordance with the clients' business delivery requirements. Provided technical and consumer support.

2009

INTERNSHIPS

1. Circuit Business Systems (June-Dec 2009)

- Participated in installation of structured cabling networks and configuration of active network devices.

2. Kenyatta University ICT Directorate (Jan-May, 2009)

- Placed in computer hardware workshop to perform PC Repairs, Maintenance and End-User Support.

EDUCATION

ONGOING

DOCTOR OF PHILOSOPHY IN IT SECURITY AND AUDIT, KABARAK UNIVERSITY

- Completed coursework and currently undertaking research in Human factors of cybersecurity.

DECEMBER 2018

MASTER OF SCIENCE IN IT SECURITY AND AUDIT, KABARAK UNIVERSITY

- Graduated with MSc. in Information Technology Security and Audit.
- **Thesis:** I developed "A Model to determine Risk Exposure Index among Savings and Credit

Cooperative Societies in Kenya”.

DECEMBER 2009

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING, KENYATTA UNIVERSITY

- Graduated with Second class in BSc. Computer Engineering.

NOVEMBER 2002

KENYA CERTIFICATE OF SECONDARY EDUCATION, LONDIANI BOYS HIGH SCHOOL

- Graduated on top of my Class leading the 2002 cohort with a Mean Grade of **A- (Minus)**

NOVEMBER 1998

KENYA CERTIFICATE OF PRIMARY EDUCATION, SARAMEK PRIMARY SCHOOL

- Attained 458 Marks out of the possible 700 Marks. This translated to grade **B (Plain)**

SKILLS

- Competency level in Training and practicing data-driven Web Programming using PHP, HTML5, CSS3, Bootstrap, Semantic UI, Nodejs or RESTful Services.
- Hands-on training and practice in Projects management.
- Proficiency in computer security and forensics with focus on fraud, forensic accounting and investigation.
- Well versed and practice ICT Audit and ICT Consultancy.
- Expert in database management with Oracle, Ms Sequel server and MySQL

TECHNICAL ACTIVITIES

SEPTEMBER 2019

ERP CHANGE-OVER, FORTITUDE SACCO SOCIETY LIMITED, MBITA

- Provided Consultancy on Sourcing, vetting and selection of ERP vendor.
- Engaged vendors on behalf of the Sacco
- Oversaw the training of end-users and configuration of business processes
- Provided technical support in extraction and verification of data from old EPR system.

JULY 2019

EPR CHANGE-OVER, ILKISONKO SACCO SOCIETY LIMITED, OLOITOKITOK

- Managed the change-over project of ERP system on behalf of Ilkisonko Sacco.
- Supervised the training of end-users and configuration of business processes
- Provided technical support in extraction and verification of data from old EPR system.

APRIL 2019

EPR CHANGE-OVER, KIPSIGIS EDIS SACCO SOCIETY LIMITED, BOMET

- Provided Consultancy on Sourcing, vetting and selection of ERP vendor.
- Was a proxy between the system vendors and the Sacco on technical matters
- Managed the training of end-users and configuration of business processes
- Provided technical support in extraction and verification of data from old EPR system

2019, 2020, 2021 (THREE YEARS)

ANNUAL ICT AUDIT, THE APPLE SACCO SOCIETY LIMITED, KAPSABET

- Examined Sacco's Internal IT controls and evaluate their design and operational effectiveness.
- Examined policies, tested networks and systems to identify vulnerabilities.
- Reported established risk exposures and recommended remediation strategies.

NOVEMBER 2018

DATA MIGRATION, SIMBA CHAI SACCO SOCIETY LIMITED, KERICHO

- Contracted to spearhead automated migration of data from MySQL in old ERP to Microsoft SQL Server used by new ERP.
- Ran SQL Scripts to obtain and verify integrity of data before, during and after migration

RESEARCH AND PUBLICATION

1. Mutai, J. & Masese N. (2019). A model for assessing Security Risk Exposure in Savings and Credit Cooperative Societies. *International Journal of Business & Management*. Vol. 7, Issue. 8, ISSN2321-8916"
2. Kiprotich, M. (2018). A web-based model to determine security risk exposure index among savings and Credit Cooperative Societies. Retrieved from <http://ir.kabarak.ac.ke/handle/123456789/184>
3. Mutai, J. (2017). Assessing Security Risk Exposure in Kenyan Savings and Credit Cooperative Societies using a Web Based Model to Compute Security Risk Exposure Index. *Mara Res. J. Comput. Sci. Inf. Secur.* Vol. 2, No. 1, Pages 74 - 83, ISSN 2518-8453"
4. **Other Research Interests:** Integral Security of Software systems, Human Behavioral Cyber Security

SMART EDUCATION TOOLS

- As a lecturer I have developed an online platform which enables me to share content with students. Students can login access content relevant to their courses. The Platform is accessible through my website; www.jmutai.com.

REFEREES

- 1. Prof. Simon Karume**, Professor of Information Technology,
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