

Leonard Kirui

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39000
Eldoret

Summary

Database Administration and Management;

I am skilled in designing and managing of databases; Oracle,MySQL, monitoring performances, scheduling backups, update and securing.

Web Design and Development;

I am skilled in designing and developing web based systems, deployments, maintenance and optimization.

Knowledge and Skill Sharing

I always believe in sharing knowledge and skills acquired and thus often find sessions to train students on internship and attaches in my area of specialty. Am certified in Linux operating systems platforms; Ubuntu,centos, Debian on installations, configurations, authoring-coding and its general interactivity with database systems, thus often find time to induct interns. Am also versed with Microsoft platform environments;Microsoft Navision, Business central.

Networking and Synergy

I always strive to build synergy; leveraging on experiences and expertise from colleagues of different walks in the department, within and outside my place of work .

Team Player

I believe in team work. Team spirit is critical for seamless operations. Skilled and experienced in ICT related; databases and web, gives me reason and opportunity to work closely, and learn from others-both in my area and other specialties in the department and university at large.

Experience

Moi University-Donor Funded Projects Office

ICTSupportandConsultancy • Eldoret
06/2010 - Present

- Installed and administer the Digital Platform Environment platform(DRE),a collaborative platform for sharing e-research resources among the cluster at the [African Multiple cluster centres](#)(donor funded) -with other institutions of learning. Attended a capacity building technical workshop at the University of Lagos, Nigeria Jan, 2023. <https://unilag.edu.ng/?p=18421>
- Active team leader for University Enterprise Resource Planning system(ERP) at the ICT department, assigned as team leader in charge of one of a Module for Donor and Local funded Projects administration. Also Central database administration for Business central .
- Designed and developed and maintain African Cluster Centre of Excellence(ACC) Website -<https://acc.mu.ac.ke>
- ICT support-consultancy on Infrastructural- software and hardware acquisition and their deployment
- Designed and developed Moi University-VLIR-UOS programme website <https://muvliruos.mu.ac.ke>,maintainance

and update.

- Developed the MU-VLIR-UOS project web based electronic document Management system for storing and retrieving of documents.
- Actively participated in the formulation of MU-VLIR procedures, performance targets and design of task process maps.
- Advise projects on suitable ICT equipment (hardware and software) to procure and checks in terms of specifications; verification and validation to ensure standards value for money is realized.
- Training project leaders and principal investigators on ICT applications technologies and tools so as be abreast on latest trends to facilitate their operations
- Editor of the quarterly newsletters for the projects to enhance visibility- edited 4 issues that were successfully published

ICT Assistant Database Administrator

MoiUniversity • Eldoret

01/2009 - Present

- Managing of database systems; back up, recovery, update and regular optimization of database system.
- Monitoring web-based system performance by use of open source application tools: Free radius, Nagios core, Proxima, Cacti, dalo radius among others.
- Designing and developing [Moi University website](http://www.mu.ac.ke/index.php/en/) and web systems, customization of Content Management System(cms) - <http://www.mu.ac.ke/index.php/en/>
- Administration of university mail system; For remote authentication and authorization by assigning user rights and privileges to the administrators.
- Actively participated in the review of Moi University ICT policy, July 2016; governance and structure
- Team leader (web site and database) during draft of Moi University ICT website and websystems policy, May-June, 2017
- Implementing the university Enterprise Resource Planning System (NAVISION); assigning user rights and passwords to students and staff, design and re-design of custom workflows.
- Collating and analyzing of databases and web systems reports to inform advisory to the director ICT; in case of down times, security breaches and others.
- Championing and fast-tracking of procedures to ensure adherence to university ISO standards-from the database and system section of ICT.
- Setting performance targets and working towards their timely realization- to ensure compliance with performance contracting.
- Installation of the Digital Repository (D-space) for e-resources and publications storage at the Margaret Thatcher Library

Part-Time Lecturing at Department of Information Technology

MoiUniversity, School of Information Science • Eldoret, -Select-

01/2021

- Taught 1st, 2nd, 3rd and 4th year classes courses: **Introduction to Information Technology-CMM 112, Organisational Behaviour Management, Software Engineering-INS 411, Fundamentals of Software Engineering-INF 370 and Management of ICT-CMM 213,**

Team Leader/Supervisor-Digital Literacy Programme(DLP)

MoiUniversity-Digital Literacy Programme(Laptop Project) • Eldoret

05/2016 - 12/2016

- **Team leader during Digital Literacy Programme (Laptop project) Implementation**, Phase one, Moi University ICT-government contracted-Training of Primary School teachers on digital skills in 26 county schools, May-Dec 2016
- Trainer of trainers- training and supervising of trainers and during the exercise in the county schools.
- Working with the sub-county directors of Education and the head teachers of primary schools on logistics to schedule the teachers for training and reports writing.

Part-time Lecturing, Publ. & Media Studies-MES 322

MoiUniversity, School of Information Sciences • Eldoret

07/2012 - 08/2012

- Theory lecture on video capturing, logging, assembly of shots and use of effects in enriching final video, sequence, story board generation and script writing.
- Hands-on instructing students on video capture on video cam and downloading.
- Hands-on instruction to students on video editing software- adobe premiere and taking them through on the features of production.

Information Technology Intern

MoiUniversity,ICTDepartment • Eldoret

09/2008 - 12/2008

- Hands on experience in prototype database designs, web based system development, coding and customization
- Hands on experience on networking, structured cabling termination and fiber optic splicing
- Computer maintenance, installations of hardware and soft wares

Industrial I.T Attaché

MicroLAN KenyaLimited-ICTFIRM • Kericho

05/2008 - 08/2008

- Exposure and hands on experience on hardware and software installations, configuration and connectivity.
- Exposure on web design and development
- Hands on experience on Enterprise Resource Planning system(sage Accpacc)
- Computer repair and maintenance
- Hands on experience on report writing, job cards, specification quoting of hardware and software for clients.

Professional Affiliations

Professional Member

- **Internet Society (ISOC)** , Global Member id: 2227889 and also [Kenya Chapter Member-Internet Society of Kenya\(ISOK\)](#), www.internet.society.org
- [Association of Computing Practitioners of Kenya\(ACPK\)](#), [Professional Member](#), Member no:PM000463
- Association for Computing Machinery(ACM)- Member, www.acm.org

Skills

SQL HTML C++ CSS JAVA PERL and PHP, MYSQL and Oracle databases, Web Graphic design-with Corel Adobe; Photoshop In design, Python and SPSS data analysis and presentation, CMS web customization with Joomla Drupal E107

Education

PhD in Information Technology-At Thesis Submission Stage

KibabiiUniversity • Bungoma

06/2025

- Research area: Linked Data and Semantic Web;
- Research Title: Designing a Web API and Linked Data Solutions Framework for Enhanced Data Accessibility & Interoperability in Digital Repositories

Academic Publications

Kibabii University

02/2023

1. Green Informational Technology(IT) Strategies in Institutions of Higher Learning in Kenya for Sustainability: Challenges and Opportunities. Leonard K. Kirui 1[Kibabii University], Alice W. Nambiro 2[Kibabii Univ.], Eugene O. Masinde 3[Kibabii Univ.] <http://www.ijcstjournal.org/volume-11/issue-1/IJCST-V11I1P1.pdf> [published on Feb 20 23]
2. Leveraging P2P Architecture in Semantic Web to Optimize Resource Discovery. Leonard Kirui 1[Kibabii University], Samuel M. Mbuguah 2[Kibabii University], Richard K. Rono 3[Kibabii University] <https://ijrsrset.com/index.php/home/article/view/IJSRSET2411278> [published on 15-05-2024]

Conference Publications

• Eldoret

05/2024

1.Enhancing Data Accessibility and Interoperability in Repositories through Web Application Programming Interface(Web API) and Linked Open Data Approach [Paper no 8]- [h t t p s : / / a c c . m u . a c . k e / i m a g e s / a c c _ w o r k s h o p / S A S S - M o i 4 0 - W o r k s h o p _ P r o g r a m - a n d - A b s t r a c t s . p d f](https://a.cc.mu.a.c.ke/images/a_cc_wor_ksh_op/SASS-Moi40-Wor_ksh_op_Program-and-Abstracts.pdf)

Master of Science in Information Technology

MoiUniversity • Eldoret

12 /2 02 0

- AwardedMaster of Science degree in Information Technology

Bachelor of Science in Information Sciences

MoiUniversity • Eldoret

10/2 008

- AwardedBachelor of Science degree in Information Sciences, Second class honours

Kenya Certificate of Secondary Education(KCSE)

KerichoHighSchool • Kericho

11/2 000

- AttainedAggregatemean grade of B

KENYA Certificate of Primary Education(KCPE)

KorongoiPrimarySchool • Kericho

11/1995

- Attained532marks out of 700

Languages

English, Kiswahili, Kipsigis