

Trevor T.T Makuasi

CHAIRPERSON - LECTURER · COMPUTER SCIENCE

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“Any man can change the stars, if they believe they can”

Work Experience

Harare Institute of Technology

Harare, Zimbabwe

CHAIRPERSON COMPUTER SCIENCE DEPARTMENT

July 2018 - Present

- Managing the day to day operations of the Department.
- Creating Strategic plans to align the department to the Institution's mandate.
- Representing the Department and Institute at various meetings and conferences.
- Curriculum review for Bachelor of Technology programmes in the School of Information Sciences.
- Crafting of Regulations for Bachelor of Technology and Master of Technology Programs.
- Technical Consultancy and spearheading drives towards industrial partnerships.
- Peer review coordination and assessment of Department staff members.
- Staff recruitment and interviews
- Duty delagation and supervision of staff members.
- Enrolment and selection of new students.
- Budgeting and Planning for the department.
- Producing various reports for senior management.
- Convening of Departmental Board meetings
- Attending of Institute Academic and Senate Board Meetings
- Representing the Department and Institute at various meetings and conferences.
- Providing counselling and mentorship to students.
- Conducting workshops, research and training.

Harare Institute of Technology

Harare, Zimbabwe

LECTURER

June 2016 - Present

- Instructor for Introduction to C Programming, Object Oriented Programming, Technical Communication Skills, Web Programming and Introduction to Computer Science.
- Preparation of laboratory learning material.
- Conducting programming laboratory sessions.
- Marking assignments, laboratory work and examinations.
- Assessment of students on internship.
- Conducting academic research work.
- Supervision of Part II and Part IV design and research projects.

Gisul Solutions Pvt Ltd

Harare, Zimbabwe

Co-FOUNDER & DIRECTOR

1 January 2018 - Present

- Implementation of a custom linux gateway at Marlborough High School to filter content available to students at the school. This was done to reduce load on bandwidth and also only allow students to access educational websites and protect them from the dangers of an unfiltered internet.

Harare Institute of Technology

Harare, Zimbabwe

TEACHING & RESEARCH ASSISTANT

August 2013 - July 2014

- Assisting lecturers by conducting tutorials and marking of assignments.
- Conducting research and finding new ways to boost and improve the institute Curriculum using experience gained in South Korea.
- Member of the department time table and resource mobilisation committees.

Webdev Zimbabwe

Harare, Zimbabwe

FRONT END WEB DEVELOPER - INTERN

August 2011 - May 2012

- Liaising with the project manager about user specifications and requirements.
- Liaising with the client about their user specifications and requirements.
- Converting the graphic designers work into code using HTML and CSS.
- Designing and coding custom components using Javascript.
- Providing the project manager the costing sheet based on specifications and time required.
- Deployment of web applications from development server to live server.
- Training of end users about how to use the system after deployment.

Research

Efficient Power Aware AODV Routing Protocol in MANET

Bikaner, India (AICTC - ACM)

CHRISPEN MAFIRABADZA, TREVOR MAKASI, PALLAVI KHATRI

12 -13 August, 2016

- The research was conducted for AICTC 2016 Proceedings of the International Conference on Advances in Information Communication Technology and Computing under the theme of Ad-hoc Networks. The research carried out was a proposal for an Efficient Power Aware Ad-hoc on-Demand Distance Vector (EPAAODV) protocol. This is a modification of the normal functioning of the Ad-hoc on-Demand Distance Vector protocol. The proposed technique made an attempt to increase network lifetime of a MANET. An energy consumption analysis was performed on the proposed work and the existing protocol. Other parameters such as, packet delivery ratio (PDR) and throughput were also analyzed using network simulator (NS2).

Open Source Software for Universities

Zanzibar, Tanzania

TENDAI MARENGEREKE, TREVOR MAKASI, DAVID FADARALI, WALTER MAMBODZA

22-23 November, 2018

- The research was carried out for the Ubuntu-Net Connect 2018 annual conference of Ubuntu Net Alliance, the Regional Research and Education Network for Eastern and Southern Africa. The theme was under SMART Governance: Services and Tools. The research used a systematic approach to review the available open source technologies that can be used in Universities to enhance their service as well as reduce overhead cost.

Presentations

Zimbabwe Infrastructure Investment and Development Conference

Victoria Falls, Zimbabwe

COLLABORATION SOLUTION OPTIMIZATION USING VIRTUAL TECHNOLOGIES

02 - 05 July 2018

- The presentation talked about how virtual technologies can be used to provide information visualisation and manipulation, leveraging such technology in a dynamic way to portray problems and/or challenges whilst creating a platform where they can be solved.

Zimbabwe Infrastructure Investment and Development Conference

Victoria Falls, Zimbabwe

ENERGY EFFICIENT RESOURCE PROVISIONING IN LARGE SCALE DATA CENTERS

02 - 05 July 2018

- The presentation aimed to talk about how huge companies can leverage their existing data center infrastructure to maximise resource usage and increase profits especially in countries like Zimbabwe where electricity is precious commodity that is also scarce when demand is high. The presenters proposed a technique of automatically adjusting the server utilisation threshold, so as to adapt to workload variation and thus maximising resource usage.

Articles

ICTs And The Link between SDGs And ZIMASSET

Harare, Zimbabwe

TREVOR MAKASI

August, 2017

- The article was written for the Harare Institute of Technology Technovation Magazine. Outlining how we can use information technology to achieve both the Sustainable Development Goals and Zimbabwe Agenda for Sustainable Socio-Economic Transformation since they are related but differ slightly in implementation approach.

Honors & Awards

2013 **Best Graduating Student in Web Programming**, Harare Institute of Technology

Harare, Zimbabwe

2013 **Best Graduating Student in Web Programming & Mobile Networks**, Harare Institute of Technology

Harare, Zimbabwe

Extracurricular Activity

Velocity Health Hackathon

Harare, Zimbabwe

HACKATHON TO DEVELOP A HEALTH AWARENESS APPLICATION

03 - 04 November, 2018

- Involved in the team that organised the event and was one of the judges for deciding the best developed mobile application.

Skill Set

DEVOPS	DevOps <i>Git</i>
BACK-END	Back-End Development <i>Ruby on Rails, Django, REST API</i>
FRONT-END	Front-End Development <i>HTML5, CSS, SASS, SCSS, Javascript, React, React-Native</i>
PROGRAMMING	Programming Languages <i>Ruby, Python, JAVA, LaTeX, R, R Markdown</i>
LANGUAGES	Spoken and Written Languages <i>English, Shona, Basic Korean</i>

Academic Profile

2014–2015	Masters of Engineering. in Global ICT with Management and Public Policy <i>Soongsil University, 송실대학교, Seoul, South Korea</i>
2012 - 2013	Computer Science - Exchange Program <i>Daejeon University, 대전대학교, Daejeon, South Korea</i>
2009-2012	Bachelor of Technology (Honours) in Computer Science, 1st Class <i>Harare Institute of Technology, Harare, Zimbabwe</i>

References

The other references will be provided on request.