**PRUDENCE KADEBU (ENG)**

***Ph.D Scholar - Amity University Gurgaon India | MTech Software Engineering | BSc Computer Science***

Co-Founder RIPTech Consultancy Services | Lecturer, School of Technology, University of Zimbabwe | Former Head of Software Engineering Department HIT 2015-2019

Techwomen Fellow 2018 - Mentored at Twitter (San Francisco, USA) 2018 | STEMFem Network award winner 2018

**14023 Unit O, Seke,Chitungwiza, Zimbabwe**

**C: +236 772361572 | +263 713385554** | [pkadebu@gmail.com](file:///G:\docs\Documents\pkadebu\certificates\New%20folder\pkadebu@gmail.com)

**PROFESSIONAL SUMMARY**

* Motivated and disciplined professional who focuses on timely delivery of quality output with over 10 years of experience in both hands-on, lecturing and leadership positions.
* Dedicated team player with effective communication, interpersonal, analytical, problem solving and leadership skills.
* Project Management skills.
* Willing and eager to learn and explore technological implements.
* Vice Secretary for Forum for African Women Educationalists Zimbabwe (FAWEZI) - Harare Chapter.
* A member of ZIE, Women in Engineering, ACM , ACM SIG-HPC, IEEE, ZICT (Treasurer), ISOC, IETF, Vheneka/Khanyisa Trust (Treasurer).
* Curriculum Review Consultant – ZIMCHE, ZNDU.

**ADDITIONAL SKILLS**

* Understanding of the business through a one and a half year Management Development Programme for African Sun in conjunction with the University of Zimbabwe.
* Project management and Software Quality Management skills
* Knowledge of various Database Management Systems including relational (SQLServer) and NoSQL databases (MongoDB, Cassandra).
* Knowledge of Windows Operating Systems and Linux Operating Systems.
* Microsoft Exchange Server administration.
* Various Programming Tools and environments including Visual Studio, Anaconda (Python) and various Web Technologies.
* Research in Security Requirements Engineering, Software Testing, Big Data, Machine Learning, Deep Learning and Information Security.

**QUALIFICATIONS**

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| **Qualification** | **Board** | **Year** |
| Currently pursuing PhD | Amity University Gurgaon- India | From 2017  Pending |
| Master of Technology in Software Engineering  (First Division with Distinction) | Delhi Technological University | 2012 - 2014 |
|  | India |  |
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| Bachelor of Science (Hons) Computer | Midlands State | 2002 – 2006 |
| Science (Upper Second Class) | University - Zimbabwe |  |

**WORK EXPERIENCE**

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| **Name of Employer** | **Period** | **Position Held** | **Areas of Responsibility** | **Duties** |
| University of Zimbabwe | 01/07/2019 - Present | Lecturer | School of Technology- Software Engineering | * Preparation of course content and materials. * Course assessments. * Lecturing in Artificial Intelligence, Software Engineering Principles * Curriculum Review |
| Harare Institute of Technology  (HIT) - A University in Harare | 01/03/ 2015 – 30/06/2019 | Chairperson  (Also Lecturing) | Software Engineering department | * Leading the Department. * Producing various reports. * Crafting and reviewing of Program regulations, course outlines and manuals (BTech and MTech) * Attending Departmental and Institute Board Meetings. * Ensure that all milestones are achieved within the agreed timeframes. * Implementing of quality control systems and enforcing adherence to quality. * Representing the Department and Institute at various meetings and conferences. * Instructor for Neural Networks and Pattern matching and Artificial Intelligence. * Student mentorship and motivation. * Assessment of students on internship. * Supervision of second year and final year projects for students. * Supervision of commercial projects. * Conducting research in Machine Learning and areas impacting on the running of the department |
| Harare Institute of Technology | August 2014 – February 2015 | Lecturer | Software Engineering department | * Preparing and delivering lectures, and conducting tutorials, seminars and   laboratory sessions for various courses   * Reviewing of course outlines and Lab Manuals. * Coordinator for student mentorship committee, Examinations committee * Assessment of students on internship * Supervision of second year and final year projects for students |
| Harare Institute of Technology | April 2010 - August 2012 | Teaching Assistant | Computer Science department | * Instructor for VB.Net Programming Language, Multimedia Technology, Software Engineering and Data communication and computer networks. * Student mentorship * Assessment of students on internship * Supervision of second year and final year projects for students |
| African Sun (Pvt) Ltd | February 2008 - November 2009 | Systems Support Analyst | Business Information Systems | * Supporting The Victoria Falls Hotel and The Kingdom at Victoria Falls with all their ICT needs including all systems support, server administration and network support. * Producing various reports for Head Office. * Training end users and mentoring students on attachment |
| African Sun (Pvt) Ltd | December 2006 up -February 2008 | Management Trainee | Business Information Systems | * Hardware maintenance and repairs * Systems support for Accpac (Accounting Package), Micros (Point of Sale) and CLS (Property Management System). * Support for Windows, UNIX and LINUX systems. * Network administration. * Antivirus software management. * Exchange server administration. |
| ZB Bank  (Westend) | August 2004-July 2005 | Intern | Service Centre | * Help Desk manning * Systems Support * Bank Direct Support * Hardware Maintenance |

**COURSES TAUGHT**

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| **Course** | **Level** |
| Software Engineering | 1 |
| VB.Net | 1 |
| Secure Software Management | 2 |
| Object Oriented Design and UML | 2 |
| Multimedia Technology | 2 |
| Computer Graphics | 2 |
| Data communication and computer networks | 2 |
| Engineering Economies for Software | 4 |
| Software Evolution and Re-engineering | 4 |
| Artificial Intelligence | 4 |
| Neural Networks | 4 |
| Cyber Security and Cryptography | MSc Software Engineering |
| Artificial Intelligence & Expert Systems | MSc Software Engineering |
| C Programming | Certificate- University of Zimbabwe |

**PUBLICATIONS**

1. Prudence Kadebu, Vikas Thada and Panashe Chiurunge, ‘Natural Language Processing and Deep Learning Towards Security Requirements Classification’, 3rd International Conference on Contemporary Computing and Informatics (IC3I) 2018
2. Prudence Kadebu, Vikas Thada and Panashe Chiurunge, ‘Security Requirements Extraction and Classification: A Survey’, 3rd International Conference on  
   Contemporary Computing and Informatics (IC3I) 2018
3. Land availability alert system with Google Maps integration using GPS and GSM technologies: A case study for Chitungwiza Municipality, Zimbabwe, IEEE-NISS 2018
4. Secure Offloading of Elastic Applications in Mobile Cloud Computing, IEEE-EECCMC 2018
5. Promoting Collaborative Research Among State Universities in Zimbabwe Through Identity Federation and Researcher Information Management, UbuntuConnect 2017
6. Digital Tools for Collaborative Research, UbuntuConnect 2017
7. Design and Implementation of an Intrusion Detection System using MLP-NN for MANET, IST-Africa, Namibia, IEEE 2017
8. A Neural-network based Chat Bot, ICCES, India, IEEE 2017
9. Digital Tools for Collaborative Research, UbuntuNet Alliance Annual Conference, 2017
10. Exploratory Test Oracle using Multi-Layer Perceptron Neural Network, Advances in Computing, Communications and Informatics (ICACCI), India, IEEE 2016
11. A technical evaluation of the performance of classical Artificial intelligence (AI) and methods based on Computational Intelligence (CI) i.e. Supervised Learning, Unsupervised Learning, Ensemble and Immune Algorithms in Intrusion Detection Systems, ISSN 2223-7062 Proceedings and Report of the 9th UbuntuNet Alliance Annual Conference, 2016 pp 181-188
12. Big Data: Security Engineering Framework, The 13th International Conference on Software Engineering Research and Practice, SERP’15, Las Vergas, Nevada, USA, July 2015
13. A Security Requirements Perspective Towards a Secured NoSQL Environment: International Journal of Modern Communication Technologies & Research, India 2014.
14. Database Management Systems: A NoSQL Analysis: International Journal of Advance Research and Innovation, India 2013.

**ARTICLES IN MASS MEDIA**

1. Understanding Software Engineering discipline, July 31, 2017 <http://www.herald.co.zw/understanding-software-engineering-discipline/>
2. Keeping children safe online, November 15, 2017,

<http://www.herald.co.zw/keeping-children-safe-online/>

1. Choosing a career path in computing fields, April 12, 2018 , <http://www.chronicle.co.zw/choosing-a-career-path-in-computing-fields/>
2. Schools must instil right values April 5, 2019 <http://www.dailynews.co.zw/articles/2019/04/05/schools-must-instil-right-values>

**PUBLIC LECTURES, ADDRESSES AND TALKS**

1. Child Online Safety, CapitalkFM 4:30 show with Farai on October 26, 2017
2. Presented on the BTech SE and MTech SE body of knowledge during the School of Information Sciences and Technology Stakeholders Consultation Workshop HIT 2014
3. Speaker on ‘Big Data Security’ at a Workshop on Emerging Technologies 2015.
4. Speaker on ‘How to lead in the work environment’ at the Women in Technology Event, 8 March 2018
5. Panellist at the Deep Learning Indaba held at University of Zimbabwe on 6 April 2018
6. Opening remarks at the HIT “Ignite success through Innovation” Workshop held on 20 April 2018
7. Panellist at the Forum for African Women Educationalists Zimbabwe - Chapter (FAWEZI) event on Women in STEM held in Harare on 13 February 2019
8. Panellist at the Women Techmakers celebration event held in Harare on 17 April 2019
9. Panellist and mentor at the WomEng Fellowship held in Gweru on 14 June 2019
10. Speaker on Cyber Security challenges at the Cyber Security Symposium – Troutbeck Nyanga August 2019
11. Presenter, Writing Literature Review, citation and referencing using Mendeley, Zimbabwe National Defence University Research workshop, 9 January 2020

**SEMINARS, WORKSHOPS AND CERTIFICATES**

1. ISO 9001: 2008: Quality Management Systems Internal Audit, Standards Association of Zimbabwe 2012.
2. International Conference on Advanced Developments in Engineering and Technology, LordKrishna College of Engineering Ghaziabad, India 2013
3. Advances in Web and Mobile Applications, Delhi Technological University, India 2013
4. Robotics, Aedifico Tech Pvt.Ltd Delhi India 2013
5. Microsoft India AppFest 2013, Delhi Technological University.
6. Certified Ethical Hacking Expert, TechDefence Pvt Ltd, Delhi Technological University.
7. National Workshop on “WEKA”, an Open Source Data Mining Tool, ITM University, India 2014.
8. Google Digital Skills, Centum Learning 2017.
9. HPC Training in Artificial intelligence and Machine Learning, ZCHPC 15 to 19 August 2016
10. Cloudera Hadoop Big Data Analytics Boot Camp, ZCHPC 2017
11. Minimum Body of Knowledge for Software Engineering workshop, 30-31 January 2018
12. Minimum Body of Knowledge for Software Engineering workshop, 9-10 May 2018
13. Women in Technology event– Speaker, Harare Institute of Technology, March 2019
14. Cyber Security Workshop, Celebration Centre, May 2018
15. National Critical Skills Audit (NCSA) Workshop, MTB 15 May 2018
16. Zimbabwe Infrastructure Investment & Development Conference 2018, Elephant Hills Resort and Conference Centre, Victoria Falls July 2018
17. Deep Learning Indaba-Panellist, University of Zimbabwe, August 2018
18. Machine Learning in 45minutes, Google Developer Group, San Francisco, October 2018
19. Secure Programming, Twitter, San Francisco. October 2018
20. Investment in Women and Girls in Science for Inclusive Green Growth-Panellist, Forum for African Women Educationalists Zimbabwe Chapter – FAWEZI, 13 February 2019

**GRANTS/AWARDS**

1. Techwomen 2018- United States Department of State, Bureau of Educational and Cultural Affairs
2. United States Department of State, Bureau of Educational and Cultural Affairs, Techwomen Seed Grand for Vheneka/Khanyisa Project implementation
3. 2018 Women leading in advancing ICT Education –STEMFem Network

**PROJECTS**

1. Career Recommender System for Higher Education Institutions 2018-2019
2. Credit Card Fraud Detection 2017-2018
3. Zim-Road Traffic Simulator – Simulation platform for driver’s licence training and testing 2016-2017
4. Intelligent Construction Cost Estimatior – Neural Network based construction cost estimation for buildings -2016-2017
5. Electronic Babycare Health System – Birth and Post-natal management system -2016-2017
6. Multipurpose Evaluator Exam Engine –Intelligent exam preparation and marking system 2015-2016
7. Neuro-Analytic business package – Neural Network based ERP 2015-2016
8. Government to Citizens Interaction System – Crowd sourcing platform 2015-2016
9. An Integrated Approach to Software Engineering Methodology and Project Management 2014-2015
10. A Taylorism Approach to Task Management for Rapid Application Development 2014-2015
11. SecureSRS – Security Requirements Engineering tool 2013-2014

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| **PERSONAL DETAILS** | |  |
| Date of Birth | 03/01/1983 |  |
| Sex | Female |  |
| Nationality | Zimbabwean |  |
| Marital Status | Married |  |

National ID # 59-059155-H-45

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| **Mrs M Chahuruva**  Director - ICTs  Harare Institute of Technology  Belvedere  Tel: +263 4 741422-36  Mobile: +263 - 774 101 509  Email: [mchahuruva@hit.ac.zw](mailto:mchahuruva@hit.ac.zw),  mpchahuruva@gmail.com | **REFEREES**  **Eng Andrew Nyakudya**  Director, UZ School of Technology  University of Zimbabwe  Box MP 167  Mt Pleasant, Harare  Tel: +263 24 2303211/ 333535  Mobile: +263 – 778 020310  Email: andrew.nyakudya@gmail.com |

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