

CURRICULAM VITAE

Permanent Postal Address

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SUMMARY

- More than **3 years** of work experience in educational and research organizations, including some data mining projects in South Korea.
- Energetic, reliable, competitive and professional; with a strong work ethic and commitment to success.
- Excellent communication, presentation, and interpersonal relationship skills.
- Experienced with working in a multi-linguistic and multicultural environment.
- Fluent in multiple languages, including **excellent English, Arabic as a native language, and basic understanding of the Korean Language.**
- Have leadership skills and also have the ability to work in **Teams and independently.**
- Have ability to communicate, analyze and troubleshoot problems in an efficient manner.

OBJECTIVES

- Seeking a research-oriented, full-time position related to developing and applying efficient **data mining and data analysis** techniques to address challenging problems in an integrated environment of large-scale real-world data sets.
- To work in a professional environment in order to use the knowledge and experience gained thus far, and wish to make a distinctive career in life.
- Using **Simulation and Modeling Techniques** to Solve Analytical Problems.

Research Interests:

- Developing new classification and clustering techniques for efficient pattern recognition, and content-based similarity retrieval techniques in multi-attribute data repositories.
- Integrating mining and analyzing multi-stream, multi-dimensional sensor databases and social networks.

PERSONAL DETAILS:

Date of Birth : **26.02.1983** Nationality : **Sudanese**
Sex : **Male** Marital Status : **Single**
Employer : **Sudan University of Sciences and Technology, Khartoum, Sudan.**

EDUCATIONAL QUALIFICATION:

Degree	Domain	Institution / University	From	To
M.Sc	School of Electrical, Electronics, Information and Communication Engineering and Computer Science, Department of Computer Science , Database/Bioinformatics Lab.	Chungbuk National university, Cheongju, South Korea.	Mar-2008	Feb -2010
B.Sc	College of Computer Science & Information Technology, Department of Computer Science. 1st Class (Honors)	Sudan University of Sciences & Technology, Khartoum, Sudan.	Nov -2002	Nov-2006
High School Certificate	Sudanese high school certificate (83.4%)	Khartoum New Model Secondary School for boys, Khartoum, Sudan.	Feb-2000	Sep-2002

Training Certificates

Title	Institution / University	From	To
Saemaul Training Program on Leadership	Saemaul central Training Institute, Seoul, Korea.	27/11/2009	28/11/2009

Principal Departmental Services/ Activities	Institution / University
Member, Department Examination Board	Sudan University of Sciences & Technology, Sudan.

LANGUAGE SKILLS:

No	Language	Listening	Speaking	Reading	Writing
1	English (TOEIC 730)	Excellent	Very Good	Excellent	Very good
2	Arabic	Excellent	Excellent	Excellent	Excellent
3	Korean	good	Fair	Fair	Fair

IT SKILLS:

Programming Languages:	C, C++, Java 2, J2EE, Visual Basic .Net, HTML, JSP, PHP, Servlets, Turbo Pascal.
Research Tools:	NS2 Network Simulator, Weka Mining tool, Clementine, Rational Rose.
Operating Systems:	Windows 95/98/2000, Windows XP, MS-DOS, UNIX/Linux.
Software Applications:	MS Word, MS Excel, MS PowerPoint, MATLAB, NetBeans IDE, QT Creator IDE, Photoshop CS4 , DreamWeaver CS4.
Databases:	Ms Access, SQLServer, Oracle, MySQL.
Assembly Languages:	Microprocessor 8085 and 8086.

PROFESSIONAL EXPERIENCE

No	Designation	Duration	Company / Institution / University
1	RA, Database/Bioinformatics Laboratory	Sep-2009-Feb 2010	Chungbuk National University, Cheongju, South Korea.
2	TA, College of Computer Science & Information Technology, Department of Computer Science.	Nov 2007 - Till Date	Sudan University of Sciences & Technology, Khartoum, Sudan.
3	RA, Network Programming	May 2007 –Feb 2008	Taiba Electronic Systems Company Ltd, Khartoum, Sudan
4	RA, Department of Networking	Jan 2007 – May 2007	Nile Electronic Systems Center, Khartoum, Sudan.

Role Description

- Tutorials and Practical Teaching at Laboratories.
- Staff Department Programs.
- Implementing Computer Science Projects.
- Writing Scientific Research Papers.

Other Academic Association

1. TA (Network Cabling and Network Programming Part time) – Al-Mashreq Technical College, Khartoum Sudan.

Courses Taught

Computer Science:

1. Programming Languages (C /C++ /JAVA Both Under Windows and Linux)
2. Web Applications (HTML, CSS, Visual basic .Net, JSP, PHP)
3. Operating System (windows – Linux)
4. Simulation and Modeling
5. Linux Kernel Module Programming

6. Network Programming
7. Network Cabling.
8. Network Simulation(NS2)

Relevant Courses

Data Mining	Spatial Databases
Algorithm Analysis and Design	Advanced Operating Systems
Advanced Computer Networks	Computer Graphics
Software Architecture and Design	Software Architecture
Advanced Technical and Professional Writing	Advanced Software Engineering
Theory of Computation	Cryptography
Computer Organization	Theoretical Computer Science
Embedded Systems Programming	Software Quality Assurance
Object Oriented Programming using C++,Java	Artificial Intelligence and Applications
Data Communication	Database Management Systems
Bioinformatics	Computer Networks and Communication
Principles of Programming Languages	Analog and Digital Integrated Circuits
Microprocessors (8085, 8086, 80386)	Modeling and Simulation
Discrete Math and Its Applications	

RESEARCH PROJECTS

Title	Institution	From	To
Self-organizing Knowledge Evolution Technology for Personalized Medicine	Personalized Tumor Engineering Research Center (PT-ERC), <i>Ministry of Education, Science and Technology, South Korea(MEST), South Korea.</i>	Sep 2008	Feb 2010
U-Bio Information Management and Disease Prevention Automatic Diagnosis System	<i>Ministry of Education, Science and Technology, South Korea(MEST), South Korea.</i>	Apr 2008	Feb 2010
Embedded Network Encryptor	<i>Nile Electronic Systems Center (NESC), Sudan.</i>	Jan 2007	May 2007
Network Database Traffic Analyzer (NDBTA) – a Database Benchmarking Tool	<i>Undergraduate Graduation Project.</i>	Sep 2006	Nov 2006

PUBLICATIONS

<International Conferences>

Ibrahim Musa Ishag Musa, GeyongMin li, Dong Gyu Lee. "Clustering Techniques for Streaming Time Series Data" The 1st International Workshop On Frontier of Information Technology **FITAT/DBMI**, Cheongju, , **South Korea, page 716-720, Oct 2009.**

Ibrahim Musa Ishag Musa, Makki Akasha Babikier, Mohammed Izzeldin, Dong Gyu Lee, Keun Ho Ryu "Semi-Ensemble Morphological Clustering for ECG data" International Workshop on Aware Computing (**IWAC09**), Aizu, Japan, **Sept 2009.**

Ibrahim Musa Ishag Musa, GeyongMin li, Dong Gyu Lee, Myeong-Chan Cho, Jang-Whan Bae."Novel Online Multi-Divisive Hierarchical Clustering for On-body Sensor Data" The 2009 International Conference On Bioinformatics and Computational Biology (**BIOCOMP'09**), Nevada, Las Vegas, USA, **page 716-720, Jul 2009.**

<Domestic Conferences>

Ibrahim Musa Ishag Musa, 정석호, 신동문, 이경민, 이동규, 손교용, 류근호. "An Interactive e-HealthCare Framework Utilizing Online Hierarchical Clustering Method" Korea Information Processing Society Spring Conference (KIPS 2009), **Busan, Korea, April 2009.**

이경민, 정석호, 신동문, Ibrahim Musa Ishag Musa, 이동규, 손교용, "효율적인 밀집 및 희소 빈발 항목 집합 탐색 방법," (KIPS 2009), **Busan, Korea, April 2009.**

ATTENDED WORKSHOPS:

Database/Bioinformatics Laboratory's Summer Workshop, **Dec 2009 SuanBo, South Korea.**

Second International Workshop on Wireless Sensor Networks and Embedded Systems Research, **KAIST, June 2009, Daejeon South Korea.**

Database/Bioinformatics Lab's Winter Workshop, **Feb 2009 SuanBo, South Korea.**

Personalized Tumor Engineering Research (PT-ERC) Project's 1st Workshop, **Jan 2009 SuanBo, South Korea.**

SHOLARSHIPS/AWARDS:

Title	Institution / University	From	To
Master Course Scholarship for Chungbuk National University, Cheongju South Korea	Chungbuk BIT Research Oriented Univ and Brain Korea (BK) Project, South Korea	March 2008	Feb 2010
Best Paper Award "Ibrahim Musa Ishag Musa, GeyongMin Li, Dong Gyu Lee. "Clustering Techniques for Streaming Time Series Data".	The 1 st International Workshop On Frontier of Information Technology FITAT/DBMI, Cheongju, South Korea	22/10/2009	24/10/2009

Principal	Institution / University
TED Translator (English To Arabic)	http://www.ted.com/profiles/translations/id/283573

VOULANTEER WORK:

AVAILABILITY: April 2010
REFERENCES: Available upon request.