

Dr. MUKHTAR MOHAMED EDRIS MAHMOUD

Ph.D. Comp. Sc. - SUST, Sudan
M.Sc. Comp. Sc. - University of Khartoum, Sudan
B.Sc. Statistics/ Computer Sc. - University of Gezira, Sudan
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COVER LETTER

Dear Sir/Madam

Re: Application to Assistant Professor in Computer Science

I am writing to apply for the job of Assistant Professor in Computer Science. I believe that this position represents an excellent opportunity for me to develop my academic career and I consider myself to be a very suitable candidate with highly relevant research, academic and teaching experiences. In fact, my years of teaching experience have provided me the potential for teaching and supervising different kinds of students in the level of undergraduate and postgraduate studies.

During my academic journey, I have published a number of papers in Computer Science field. Furthermore, all the courses that I have attended in my B.Sc., M.Sc., and Ph.D. they are closely related to the domain of Computer Science. My research interests is mainly related to Computer Science with particular interests in Internet of Things, Cloud computing, Fog computing, and Database Systems.

I assure you, that my extensive qualifications will benefit your department and contribute towards its success. If provided a chance to work with your efficient team members, I will prove to be an ideal candidate for the Assistant Professor in Computer Science position. I look forward to an interview with you where we can have a detailed discussion on my suitability for the position.

Thank you for your time and consideration.

CURRICULUM VITAE

PERSONAL INFORMATION

▪ **Dr. Mukhtar Mohamed Edris Mahmoud | Assistant Professor**

- Nationality: Sudanese
- Date of Birth: January 1, 1985
- Place of Birth: Kassala, Sudan
- Tel (Mobile): +249123505157
- E-mail: mukhtaredris@gmail.com



ACADEMIC QUALIFICATIONS

- **Doctor of Philosophy (Ph.D.)** in Computer Science - Sudan University of Science and Technology (SUST), Khartoum, Sudan.
 - Date of Award: December 20, 2018.
 - Thesis Title: An Energy Efficient-aware Fog-enabled Cloud of Things Model for Healthcare.
- **Master of Science (M.Sc.)** in Computer Science - University of Khartoum (UofK), Khartoum, Sudan.
 - Date of Award: July 23, 2012.
 - Thesis Title: End-to-End VoIP encryption using SIP Suites
- **Bachelor of Science (B.Sc.)** in Statistics/Computer Sciences –University of Gezira (UofG), Wad Medani, Sudan.
 - Date of Award: March 18, 2007.

EMPLOYMENT

- **Assistant Professor:** Faculty of Computer Science and Information Technology, University of Kassala, Kassala, Sudan.
 - Duration: December 2018 – Now.
 - Key Responsibilities:
 - Head of Information Systems department.
 - Lecturing computer science courses to undergraduate and postgraduate students,
 - Supervising undergraduate final year projects and postgraduate research students.
- **Lecturer:** Department of Information Systems, Faculty of Computer Science and Information Technology, University of Kassala, Kassala, Sudan.
 - Duration: March 2012 – November 2018.
 - Key Responsibilities:
 - Lecturing computer science and information systems courses to undergraduate students,

- Supervising undergraduate final year projects,
 - Academic supervisor for second year student in my department,
 - Member of the faculty academic board,
 - Member of examination committee,
 - Member of result committee,
 - Member of new students interview committee.
- **Teaching Assistant:** Department of Information Systems, Faculty of Computer Science and Information Technology, University of Kassala, Kassala, Sudan.
 - Duration: May 2008 – February 2012.
 - Key Responsibilities:
 - Assisting lecturers in conducting programming,
 - Assisting tutorial for undergraduate classes.
 - Instruction and assistance in the area of computer science, information systems, and laboratories (C++, Java, Pascal, Internet Applications (HTML, CCS, Java Script, PHP), Data Structure, Oracle Database, Oracle Developer, ArcGIS, statistical analysis using SPSS).
 - **Teaching Assistant (Part-time):** Faculty of Computer Science and Information Technology, University of Kassala, Kassala, Sudan.
 - Duration: May 2007 – April 2008.
 - Key Responsibilities:
 - Assisting lecturers in conducting programming.
 - Assisting tutorial for undergraduate classes.

TEACHING EXPERIENCE

- **Postgraduate Courses**
 - Research Methodolgy.
 - Advanced Database Management Systems.
 - Advanced Topics in Web Services.
- **Undergraduate Courses**
 - Principles of Information Systems.
 - Data Structures.
 - Database Management Systems.
 - Internet Programming
 - Systems Analysis and Design.
 - Internet Technologies I and II.
 - Database Applications.
 - Distributed Systems.
 - Cryptography and Information Security.
 - Advanced Internet Technologies.
 - Commercial Programming.
 - Ethical and Professional Issues.
 - E-Commerce.
 - Distributed Databases.
 - Geographic Information Systems
 - Knowlege Management

RESEARCH

- **Research Areas:** Internet of Things, Cloud computing, Fog computing, Smart healthcare, and any hot topics in the Future Internet domain.

EVALUATION AND SUPERVISION

▪ Supervision of M.Sc Thesis

- M.Sc Thesis of Enas Dawod Salih “*Performance Evaluation of Smart Traffic Lighting Techinques*”. University of Kassala, Kassala, Sudan. (Dec 2018).
- M.Sc Thesis of Alhassna Mohammed Ahmed “*Performance Evaluation of Simulating Internet of Things Environment using IoTivity Framework*”. University of Kassala, Kassala, Sudan. (Feb 2019).
- M.Sc Thesis of Nuha Hassan Elzain “*Evaluation of Developing ERP Systems using Odoo Mobile Framework*”. University of Kassala, Kassala, Sudan. (Feb 2019).
- M.Sc Thesis of Rayan Mohamed “*Performance Evaluation of Data Science using Python: Applied to Higher Education*”. University of Kassala, Kassala, Sudan. (Feb 2019).

▪ Supervision of Undergraduate Project

- Development of m-Health Applications: Applied to people with Diabetes.
- Dvelopment of Mobile workflow Management Systems Applied to University of Kassala.
- Social Media Marketing: the Concept and Application.
- Gamification of Education: Applied to the Faculty of Computer Science Second Year Students.
- and more ...

MEMBERSHIP AND COMMITTEES

▪ Professional Membership

- Member, *The Next Generation Networks (NetGNA)* - National Institute of Telecommunications (Inatel), Brazil.

▪ Committees / Other Expertises

- Paper Reviewer Committee for *2018 IEEE Global Communications Conference: Ad Hoc and Sensor Networks*, Abu Dhabi, UAE.
- Paper Reviewer Committee for IEEE Access Journal.
- Paper Reviewer Committee for International Journal of Communication Systems (IJCS).

CONFERENCES, WORKSHOPS AND SEMINARS

- **Conferences** (Participated / Attended):
 - Participated in the 2019 International Conference on Computer and Information Sciences (2019 ICCIS), Aljouf, Kingdom of Saudi Arabia, April 3-4, 2019.
- **Workshops** (Participated / Attended):
 - Attended one day workshop on “How to write a comprehensive literature review” organized by University of Khartoum, Khartoum, Sudan, December 2017.
 - Attended five days workshop on “Scientific paper writing and improvement of English skills” organized by University of Kassala under the supervision of the ministry of higher education, training department, Kassala, Sudan, April 2018.
 - Attended five days workshop on “Proposal and paper writing” organized by ARUSS organization for research funding in Sudan and South Sudan - University of Kassala, Kassala, Sudan, August 2015.
 - Attended three days workshop on “Quality management of higher education organizations” organized by Ministry of Higher Education - Sudan, , 18th March 2019.

PUBLICATIONS

- **Journals**
 - **Mahmoud, Mukhtar ME**, Joel JPC Rodrigues, Syed Hassan Ahmed, Sayed Chhattan Shah, Jalal F. Al-Muhtadi, Valery V. Korotaev, and Victor Hugo C. De Albuquerque. "*Enabling technologies on cloud of things for smart healthcare.*" IEEE Access 6 (2018): 31950-31967.
 - **Mahmoud, Mukhtar ME**, Joel JPC Rodrigues, Kashif Saleem, Jalal Al-Muhtadi, Neeraj Kumar, and Valery Korotaev. "*Towards energy-aware fog-enabled cloud of things for healthcare.*" Computers & Electrical Engineering 67 (2018): 58-69.
 - Vilela, Pedro H., Joel JPC Rodrigues, Luciano R. Vilela, **Mukhtar ME Mahmoud**, and Petar Solic. "*A Critical Analysis of Healthcare Applications Over Fog Computing Infrastructures.*" In 2018 3rd International Conference on Smart and Sustainable Technologies (SpliTech), pp. 1-5. IEEE, 2018.
 - **Mukhtar M. E. Mahmoud**, Joel J. P. C. Rodrigues, and Kashif Saleem, "*Cloud of Things for Healthcare: A Survey from Energy Efficiency Perspective*", in the Proceedings of 2019 International Conference on Computer and Information Sciences (2019 ICCIS), April 3-4, 2019, Aljouf, Kingdom of Saudi Arabia. (Indexed by **IEEE** and **Elsevier Scopus**).
- **Thesis**

- **Mukhtar Mohamed Edris Mahmoud** “*Energy Efficient-aware Fog-enabled Cloud of Things Model for Healthcare*”, Ph.D. Thesis, Sudan University of Science and Technology (SUST), 2018.
- **Mukhtar Mohamed Edris Mahmoud** “*End-to-End VoIP Encryption Using SIP Suite*”, M.Sc. Thesis, University of Khartoum (UofK), 2012.

REFERENCES

- **Prof. Dr. Joel J. P. C. Rodrigues, Senior Member, IEEE | Professor**
National Institute of Telecommunications (Inatel), Brazil.
Instituto de Telecomunicações, Portugal.
E-mail: joeljr@ieee.org, joeljr@inatel.br
- **Dr. Murtada Khalafalla Elbashir Alfaki | Associate Professor**
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