Building No.3, New Aleppo- North Quarter, Aleppo, Syria

PERSONAL INFORMATION--

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EDUCATION--

2021	**Doctor of Philosophy, Computer Engineering**, University of Aleppo, Syria
	Rank: 91.80/100 (Excellent).
2016	**Masters of Science, Computer Engineering**, University of Aleppo, Syria
	Rank: 82.43/100 (Very good).
2011	**Bachelors of Science, Computer Engineering**, University of Aleppo, Syria
	Rank: 71.29/100 (Very good).

RESEARCH EXPERIENCE--

2017-2021   **Graduate Research Fellow**, University of Aleppo, Syria

Advisor Name: Dr. Zakaria Mahrousa, Associate Professor at the Department of Computer Engineering Faculty of Electrical and Electronic Engineering, University of Aleppo, Syria.

Advisor Name: Dr. Dima Mufti Alchawafa, Assistant Professor at the Department of Computer Engineering Faculty of Electrical and Electronic Engineering, University of Aleppo, Syria.

Dissertation Title: "Processing Big Data to Design Hybrid Recommendation System Based on Constrained Clustering Algorithm and Finding Association Rules ".

2012-2016   **Graduate Research Fellow**, University of Aleppo, Syria

Advisor Name: Dr. Mahmoud Shaar, Assistant Professor at the Department of Computer Engineering Faculty of Electrical and Electronic Engineering, University of Aleppo, Syria.

Advisor Name: Dr. Mahmoud Rahhal, Assistant Professor at the Department of Computer Engineering Faculty of Electrical and Electronic Engineering, University of Aleppo, Syria.

Dissertation Title: "Two Layer-Based Watermarking Algorithm for Copyright Protection of Multilanguage Text Documents ".

2006-2011   **Undergraduate Research Fellow**, University of Aleppo, Syria

Advisor Name: Dr. Ammar Aljer, Assistant Professor at the Department of Computer Engineering Faculty of Electrical and Electronic Engineering, University of Aleppo, Syria.

Dissertation Title: " Website to Exchange E-learning Services ".

TEACHING EXPERIENCE---

2015- _{Up to now}   **Instructor, Department of Computer and Communications Engineering**, Cordoba Private University, Syria

2015- Up to now   **Instructor, Department of Computer and Communications Engineering**, Cordoba Private University, Syria

Instruct students about concepts like Image Processing, Pattern Recognition, Artificial Intelligence, Real Time Systems, Digital Circuits, System Analysis and graded all assignments, reports and final group project(full-time).

2014-2021   **Lecturer, Department of Computer Engineering**, University of Aleppo, Syria

Delivered lectures on the topic of Image Processing, Pattern Recognition, Programming Languages and Computer Skills to educate students and highlight the recent progress and work related to it(part-time).

2012-2016   **Instructor, Computer Engineering**, **Aleppo computer Technology institute (ACTI)**, University of Aleppo, Syria

Prepared lectures focusing on concepts like Microcontrollers, Operating System and Computer Maintenance(full-time).

PUBLICATIONS--

2020   Mahrousa Z., Alchawafa D. M., Kazzaz H.,2020 - **A Dynamic Sliding Window Based Balanced Parallel Frequent Itemset Mining Algorithm in Data Stream**, International Journal of Computer Applications IJCA, New York, USA, September 2020 Edition, ISBN: 973-9380901-33-5.

2020   Kazzaz H., Alchawafa D. M., Mahrousa Z.,2020 - **Balanced Parallel Algorithm for Mining Frequent Pattern from Data Stream,** Tishreen University Journal for Research and Scientific Studies - Engineering Sciences Series Vol. (24) No. (3) 2020, Print ISSN: 2079-3081, Online ISSN:2663-4279.

2020   Kazzaz H., Alchawafa D. M., Mahrousa Z.,2020 - **Balanced Parallel Algorithm for Mining Association Rule Based on MapReduce Technique**, Aleppo University Journal for Research and Scientific Studies- Electromechanical and Informatics Engineering Series No. (155) of 2020.

2020   Kazzaz H., Alchawafa D. M., Mahrousa Z.,2020- **Frequent Itemset Mining Based on Development of FP-growth Algorithm and Use MapReduce Technique**, Association of Arab Universities Journal of Engineering Sciences (2020), No. (328) 2020.

2019   Kazzaz H., Alchawafa D. M., Mahrousa Z.,2019- **Designing a Directed Graph-Based Algorithm for Finding Sets of Frequent Item to Mining Association Rules**, Aleppo University Journal for Research and Scientific Studies- Engineering Sciences Series (2) No. (148) of 2019.

2016   Kazzaz H., Shaar M., 2016- **Two Layer-Based Watermarking Algorithm for Copyright Protection of Multi-Language Text Documents**, Aleppo University Journal for Research and Scientific Studies- Engineering Sciences Series (2) No. (131) of 2016.

2016   Kazzaz H., Shaar M., 2016- **Designing of Watermarking Algorithm for Authentication and Protection of Text Documents**, Aleppo University Journal

for Research and Scientific Studies- Engineering Sciences Series (2) No. (129) of 2016.

PRESENTATIONS--

2021   Kazzaz H., 2021- **Frequent Itemset Mining in Data Stream**, The Third Engineering Conference for Graduate Students, Annual Conference, Tishreen University, Latakia, Syria, December 2021.

2020   Kazzaz H., 2020- **Frequent Itemset Mining Based on Development of FP-growth Algorithm**, The Scientific Conference of Aleppo University Research Journal for the years 2019-2020, Annual Conference, Aleppo University, Aleppo, Syria, March 2020.

FELLOWSHIPS AND AWARDS ---

2011   **Al Basel Award**
Recipient of the annual award.

SPECIAL SKILLS---

- Strong background in Artificial intelligence (especially machine learning, classification algorithms, clustering algorithms and neural networks).
- Excellent data mining algorithms background.
- Over 10 years of programming experience in C, C++, C#, MATLAB, HTML, CSS, Java Script, PHP, Mikro C and Assembly Language (8086, 8051).
- Fast learner with proven problem-solving skills.
- Able to function effectively as independent worker or as member of team.

REFERENCES--

- Available upon request.