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# Dr. Mahmoud Aljawarneh

## Information Technology

**About Me** A full time challenging position in a competitive environment, where my education and work experience can have a profound impact, resulting in the growth and productivity of the organization.

## Education

**2015 - 2019, PhD in Information Technology - University of Sindh**

**Course Work:** 4 CGPA out of 4

**Research Thesis:** "Policy-driven Context-aware Service Composition of Heterogeneous Services in Pervasive Computing Environments"

**2012 - 2014, MS in Information Technology - University of Sindh**

**Course Work:** 3.75 CGPA out of 4

**Research Thesis:** "Resolving User Conflicts in Multi-user Context-aware Home Environment"

**2007 - 2010, BS in Information Technology - University of Sindh**

**First Class - 3.13 CGPA**

**FYP - First position awarded in Exhibition 'Project of the Year 2010'**

**Thesis Titled:** "TeleMedicine System for Thar"

## Research Interest

- Pervasive computing, Context-aware Computing, Smart environments, internet of things, machine learning.

## Publications

1. M Aljawarneh, LD Dhomeja, YA Malkani "Context-aware Heterogeneous Service Composition Framework for Pervasive Computing Environments" SindhUniv. Res. Jour. (Sci. Ser.) 50 (3), 345-354, 2018
2. M Aljawarneh, LD Dhomeja, YA Malkani "Context-aware service composition of heterogeneous services in pervasive computing environments: A review" Multi-Topic Conference (INMIC), 2016 19th International, 1-6
3. Lakho, I. K., Dhomeja, L. D., Malkani, Y. A., Memon, S. A., & Aljawarneh, M. (2018) "Exploiting Dynamic Attributes and Annotations for Service Discovery in Pervasive Computing".
4. Z Hussain, S Memon, R Shah, ZA Bhutto, M Aljawarneh "Methods and Techniques of Electricity Thieving in Pakistan" Journal of Power and Energy Engineering 4 (09), 2016
5. Mohammed Moneer, Mahmoud Aljawarneh, Lachman Das Dhomeja, Gulsher Laghari, Bisharat Rasool Memon "An Indoor Tracking System using iBeacon and Android" Sukkur IBA Journal of Computing and Mathematical Sciences 2021
6. M Aljawarneh, LD Dhomeja, YA Malkani, SM Shah "Resolving User Conflicts in Multi-user Context-aware Home Environment", A preprint is under consideration at Scientific Reports, 2022.

## Experience

**Oct-2022 To current, Assistant Professor, Applied Sciences Private University, Amman, Jordan**

To develop human resources by imparting quality education in all fields of information technology and responsibility towards society to contribute to the prosperity of people and peace and harmony in the country.

Responsibilities:

- Teach various subjects in CS,SE.
- Supervising final year student projects.



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### 23-Jan-2020 To 02-Mar-2022, Assistant Professor, Szabist University, Hyderabad, Pakistan

To develop human resources by imparting quality education in all fields of technology most importantly in Data Sciences and Machine Learning. Specially using Python programming language

Responsibilities:

- Teach various subjects related to Computer Sciences.
- Supervising final year student projects in IoT, Data Sciences and Machine Learning.

### 02-Aug-2012 - 30-Jun-2014 and 04-Jan-2016 - 28-Jun-2017, Visiting Faculty, IICT, University of Sindh

To develop human resources by imparting quality education in all fields of technology and responsibility towards society to contribute to the prosperity of people and peace and harmony in the country.

Responsibilities:

- Teach various subjects of software engineering & IT.
- Help in supervising final year student projects as a co-supervisor.

### Courses Taught in University for Undergraduate Level

Database Systems, Structured Programming, Data Structures and Algorithms, Operating Systems, Software Engineering, Cloud Computing, Java Programming, Object Oriented Paradigm, C++ Programming, Operating Systems, Human Computer Interactions, System Administrations, Data Security & Encryption, Computer Communication and Networks, Machine Learning, Embedded System, System Administrator.

### Courses Taught in University for Master Level

Advance Operating Systems, Research Methodology and Deep Learning

## Software Development Skills

### Programming

Sl. No.	Skill Title	Skill Level (Basic/ Intermediate/Proficient)	Total Experience (years)	Last Used (Year)
1	Java	Proficient	12	2022
2	Python	Proficient	4	2022
3	C++	Proficient	10	2022
4	Swift	Intermediate	4	2017

### Computer Software

- Linux
- iOS
- Android
- LaTeX
- MS Office

## Languages

Arabic Language - Native, & English - Fluent, & Urdu - Conversational

## Interests

**Professional** - LaTeX Typesetting, company profiling, risk analysis, Mobile app creation, software design

**Personal** - Badminton, Running, Cycling, Traveling, Creative Writing

## Academic References

	Reference 1	Reference 2
<b>Name</b>	Dr. Raed M. Alkhateeb	Dr. Lachhman Das Dhomeja
<b>Company</b>	Yarmok University	IICT, Sindh University- Pakistan
<b>Position</b>	Assistant Professor	Professor
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