

Huda O. Omais.

Mobile: +961 3 025 640

E-mail: huda.omais@gmail.com

Address: Beirut, Lebanon

EXPERIENCE

LECTURER | BEIRUT ARAB UNIVERSITY - LEBANON | SEPTEMBER 2019 – PRESENT

- Teaching labs for 4th and 5th years Computer Engineering students.
- Courses summary:
 - **COMPUTER ALGORITHMS:** The P=NP question. Time complexity of algorithms. The classes PNP. Solving recurrences. Divide and-conquer. Greedy algorithms. Dynamic programming. Graph algorithms. Geometric algorithms. Algorithms on matrices and polynomials. Number theoretic algorithms. Reductions between problems. Theory of NP completeness. Examples of NP complete problems. Some approximation algorithms.
 - **QUEUEING AND MODELING:** Random variables, Performance measures. Markov processes. Birth/death processes. Solving Markov models. Continuous and discrete queueing models: M/M/1, M/M/m, M/M/m/m, M/M/1/K, M/G/1. Little's law. Networks of queues. Burke's theorem. Jackson's theorem. Stochastic Petri nets. GSPN.
 - **CRYPTOGRAPHY AND INFORMATION SECURITY:** Measures of information. Elementary ciphers. Complexity measures. Designing a generic block cipher. Modes of operation. Attacks against block ciphers. Message digests. Cryptographic hash functions. Public key. cryptography. Diffie-Hellman key exchange. RSA. Digital signature schemes. Forging digital signatures. Pseudo-random bit generators. Authentication techniques. Applications.

BI ARCHITECT | CONFIDENTIAL - LEBANON | JANUARY 2019 – OCTOBER 2019

- BI Data preparation (sourcing, acquisition, integration)
- BI Scheme structuring (well understanding of system structure and tables relation)
- BI dashboard and reports distribution (insight to achieve real-time analytics, better data visualization and exploration, robust data aggregation, expressions and calculations of mixed-query capacities for complex reporting)
- Oversee the production of accurate, visually appealing, fully documented reports which are clear, actionable, and able to help drive business decisions.
- Collaborating with end users to identify needs and opportunities for improved data management and delivery in all business areas
- Manage the automated delivery of information and access privileges

INTERMEDIATE BI DEVELOPER | WICOM - LEBANON | APRIL 2014 – AUGUST 2018

BI Development

- Developing business intelligence tools
- Querying and processing Big Data from Client's servers
- Designing custom Database models based on Client's requirements (MSSQL)
- Regular meetings with Business Analysts to understand whereabouts of projects
- Working on many projects for telecom companies in Lebanon and Middle East
- Experience in languages such as: SQL, Vertica, XML, F#, C#,..
- Telecom Background (work and college)

ACTING TECH LEAD | WICOM - LEBANON | OCTORBER 2016 – DECEMBER 2016

Coordinating a BI project for telecom company

- Interaction with Developers, QA Engineers, Project Managers, Software Architects.
- Worked on merging many threads under the same projects
- Handling project transition to SUPPORT team

TELLER | BANK AUDI S.A.L. | OCTOBER 2009 – OCTOBER 2012

- Cash Operations, Retail Operations, Customer Files
 - Working as a teller on Cash Operations, international transfers...
 - Attending many workshops and training sessions regarding Banking in Lebanon (Legal aspects, Market study, Human Interaction...)
 - Building a good relationship with regular clients and approaching new clients

INSTRUCTOR | ROSHD CENTER | JANUARY 2009 – SEPTEMBER 2009

- Teaching ACMAS Program (Mental Practice)

TUTOR | FEBRUARY 2008 – DECEMBER 2008

- Private tutor for school students

EDUCATION

MASTER OF ENGINEERING | 2015-PRESENT | BEIRUT ARAB UNIVERSITY (BAU)

- Computer Engineering.
- Thesis: Security Enhancement in Software-Defined Networks.

MASTER OF SCIENCE | 2013 | LEBANESE INTERNATIONAL UNIVERSITY (LIU)

- Computer and Communication Engineering
- Thesis: Home Automation System: Control house through Web App (JSP) and Android Mobile App (Java, XML)

BACHELOR OF SCIENCE | 2009 | LEBANESE INTERNATIONAL UNIVERSITY (LIU)

- Computer Engineering

BACCALUREATE | 2005 | OMEC

- Life Sciences

CERTIFICATIONS

ANDROID: DESIGN AND NETWORK PROGRAMMING

- Center for Continuing & Professional Education (CCPE), Beirut Arab University (BAU), 2018.

SKILLS AND INTERESTS

PROGRAMMING

- SQL, MySQL, HTML, XML, C#, C++, Java, F#, Vertica, Python.

COMPUTER

- Microsoft Operating Systems, Linux
- Microsoft Office (Word, Excel, PowerPoint, ...)
- MSSQL, MS Power BI, Qlik Sense
- NetBeans, Eclipse, Oracle VirtualBox
- Redis, GitHub, Jenkins, Jira.

LANGUAGES

- Arabic (Native), English (Excellent), French (Beginner), Spanish (Beginner).

HOBBIES

- Playing music, Reading, Swimming, Yoga

PERSONAL QUALITIES

- Logical, Analytical, Ambitious, Team Player, Devoted, Detailed, Responsible, Attentive, Helpful

MEMBERSHIPS

IEEE WOMEN IN ENGINEERING

- Member since 2019.

IEEE YOUNG PROFESSIONALS

- Member since 2018.

ORDER OF ENGINEERS AND ARCHITECTS, BEIRUT, LEBANON

- Member since 2016.

VOLUNTEER AND COMMUNITY WORK

WOMEN'S SOCIAL ASSOCIATION IN QARAAOUN, WEST BEKAA, LEBANON

- Member since 2010.

LEBANESE RED CROSS

- First Aid certificate (2008).

EMBRACE: MENTAL HEALTH AWARENESS

- Volunteer since 2019.

REFERENCES

(Available upon request).