**Nawel**

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**Date of Birth**: 22-10-1990

**Nationality**: Algerian

**Gender**: Female

**Marital Status**: Married

**Languages**: Arabic, French, English and Spanish

**Objectives**

* Obtaining a position which will offer me a professional working environment and will allow me to use my skills and develop new ones to become a highly skilled computer scientist.
* Looking for a challenging position, one which will enable me to grow continuously and contribute in the most effective manner to meet the corporation goals by being a key and an effective team player with unlimited loyalty and commitment.

**Education and Qualifications**

* **MSc in Internet Computing** with classification of **Distinction Oct 2013 – Sep 2014**

# Institution: University of Surrey -- United Kingdom

***Thesis details:***

**Topic:** Mathematical Simulation for biofilm-based Microbial Fuel Cell

**Field:** Bioinformatics

**Thesis Supervisor:** Dr. André Grüning

**Thesis Abstract:**

# A computational model of a number of Microbial Fuel Cell (MFC ) parameters with respect to the anodic compartment based on metabolic interactions in varied bacterial communities living in anaerobic environment.

Simulation Software: *MATLAB*

* **BSc in Computer Engineering Sept 2008 – Jan 2013**

**Institution:** Qatar University -- Qatar

**Project details:**

**Topic:** Remotely Controlled Rotating LED Display

**Project Supervisor:** Dr. Rachid Hadjidj

**Project Abstract:**

The Remotely Controlled Rotating LED Display project was utterly an embedded system where an entirely computer system was conceived and then materialized with real-time computing constraints in which both hardware and software were interacting.

**Internship**

**Institution:** Qatar Computing Research Institute – Qatar Foundation **Jun 2013- August 2013**

**Field:** Bioinformatics

**Project Title:** Time course and neural representation of Memorability: faces and places

**Supervisors:** Dr. Halima Bensmail & Dr. Mohammed El-Anbari

**Project abstract:**

To construct and assess spatially extended statistical processes used to test hypotheses about regionally specific effects on the brain. i.e. to perform an inference about the brain activations from a set of raw functional MRI data.

Simulation Software: SPM8 toolbox – MATLAB

**Publications in International Conferences**

* **M. Elanbari, N. Nemmour, O. Bouhali, R. Rawi, A. Sheharyar, and H. Bensmail (2014). Computational Neuro-Modeling of Visual Memory: Multimodal Imaging and Analysis. IEEE/WIC/ACM International Conference on Web Intelligence and Brain Informatics. [Warsaw, Poland]**

**Title:** Computational Neuro-Modeling of Visual Memory: Multimodal Imaging and Analysis

*[In coordination with Massachusetts Institute of Technology (MIT - USA)]*

**Abstract:**

A “**Doubly Regularized LOgistic Regression Algorithm**” was proposed (DR LORA) and compared to other classification-based algorithms such as Naive Bayes, Random forest and support vector machine.

**Some developed Projects**

* **Data mining and Knowledge Discovery**

**Project:** Breast Cancer Data Mining and Data Analysis

**Award:** Selected to be submitted to the IEEE International Conference on Bioinformatics and Biomedicine (BIBM) – Belfast, UK

**Keywords*— data pre-processing; data exploration; data preparation; machine learning; Naïve Bayes Classification, cross validation, supervised learning; train data; test data***

* **Cloud Computing**

**Project Title:** Cloud-Based Plagiarism Detection System

**Keywords*— Elastic Map Reduce; OpenStack; Google App Engine; Amazon Web Services; plagiarism detection; dynamic cloud resources; source text, suspicious text, text indexing; matching***

* **Enterprise System Development**

**Project:** French-Language learning game (client server side development)

**Keywords*— presentation layer; security layer; business layer; database layer; session management; MySQL; spring framework; Ajax; servlets***

* **Agile Web Development**

**Project:** Web application development using Ruby on Rails

* **Artificial Neural Network**

**Project:** Facial Expression Recognition

**Award:**Won the Best Course Project Award

**Working Experience**

* **Project Research Assistant -** Zayed University

**-** Data Analytics **Mar 2016 – Present**

**-** System Dynamics

* **Computer Science and Engineering Instructor Dec 2014 - Present**
* Python Programming Language
* C++
* Discrete Mathematics
* Intel Microprocessors
* Data Structure
* Java Programming Language
* **Microsoft Qatar 2012-2013**

Engaged in Microsoft Student Partner (MSP) program.

- Promoting incentives.

- Developing Windows 8 and Windows Phone 8 Applications.

* **Neilson & Business Zone Company 2011-2012**

- Collecting and analyzing quantitative information about different data on Doha population. - Data obtained through several surveys and questionnaires.

**Computer skills and IT knowledge**

**Programming languages** C/ C++, Java, Python, Ruby, SQL, p-Basic

**Modeling Language** UML

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| --- | --- |
| **Web Languages and Technologies/ Document markup language**  **Applications Programming Interfaces** | HTML, JavaScript, XML, PHP, LaTex    Swing, Servlets |

**Integrated Development Environments** Eclipse, JBuilder, Visual C++, Netbeans, Visual C++, BASIC Stamp, MATLAB, LabVIEW

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| **Application Servers** | Apache Tomcat |

**Network Simulation Software** Cisco Packet Tracer, [OPNET IT Guru](http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0CB4QFjAA&url=http%3A%2F%2Fwww.opnet.com%2Funiversity_program%2Fitguru_academic_edition%2F&ei=Xpm2U8TZGeT64QSf64DACg&usg=AFQjCNFtygsRkT1Li8mcv_-DxUK5U9RnUw&sig2=AYkLD0YrSDyls2C7XC7Vsg&bvm=bv.70138588,d.bGE)

**Industrial Simulation Software**  VENSIM PLE

**Internet Security tools** Wireshark, OpenSSL

**Operating Systems** Windows, Linux

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| **Database Management Systems** | MySQL |

**Certified Courses and Workshops**

• **Cisco Certified Network Associate**- CCNA April 2013 Cisco Systems, Inc. Canada

• **Windows 8 Application Design** workshop Mar 2013 App Academy - Microsoft

• **CCNA1** (Network Fundamentals) Jan 2012 Cisco Systems, Inc. Canada

• **3D Max** workshop Feb 2012 Qatar University

**Research Interests**

Machine Learning & Data mining, Bioinformatics & Scientific Computing, Business Intelligence, Cloud Computing