

Mokhaled Al-Hamadani

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Summary: I have a master degree in Computer Science from the University of North Carolina at Greensboro (UNCG). I have a good experience in Machine Learning and Deep Learning. I'm working with a team at NTU to solve some real problems in the computer science field. I'm also a creative Team Player with high attention to details and a quick learner. I do have good programming skills, good Knowledge of web technologies, and good knowledge of IDEs. I do have such a good passion in these areas (Big Data, Machine Learning, Deep Learning, and Data Mining.)

EDUCATION

The University of North Carolina at Greensboro-NC-USA

August 2012 – May 2015

Master of Science in Computer Science, GPA - 3.52/4.00

- Worked on Big Data and Machine Learning area and focused on Deep Learning technique using Matlab programming language, as my Master's Thesis.

Interlink Language Center – UNCG, NC-USA

March 2011 – March 2012

English Language Certificate, GPA - +A

- Started from scratch to learn English language and it went successful within a span of 10 months.

The University of Kirkuk – Kirkuk, Iraq

October 2005 – July 2009

Bachelor of Technology in Computer Science, GPA – 3.22/4.00

- Worked in a team to create a project on an Iraqi criminal law system using Visual Basic.net 2005 and excel Microsoft.
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EXPERIENCE

Coordinator of Electronic Techniques Department

September 2018 – Present

Northern Technical University – Al Hawija Technical Institute– Iraq

- I work as a coordinator in Electronic Techniques Department at Al Hawija Technical Institute. I'm responsible for all the administrative matters at the Electronic Dept.

Coordinator of Plant Production Department

July 2018 – September 2018

Northern Technical University – Al Hawija Technical Institute– Iraq

- I worked as a coordinator in Plant Production Dept. at Al Hawija Technical Institute. I was responsible for all the administrative matters at the P.P. Dept.

Head of Computer and Internet Division

May 2018 – August 2018

Northern Technical University – Al Hawija Technical Institute– Iraq

- I worked as a head of Computer and Internet Division at Al Hawija Technical Institute. I was supervising three computer labs. Two of them were for regular classes and one was specifically for AutoCAD program classes.

Assistant Lecturer

December 2016 - Present

Northern Technical University – Al Hawija Technical Institute– Iraq

- I work as an assistant lecturer in Electronic Techniques Department at Al Hawija Technical Institute. I teach several subjects for different stages such as Computer Applications, Computer Architecture and Operating System.

Director of International Relations Office

February 2016 - December 2016

Al-Qalam University College – Kirkuk, Iraq

- Coordinated the collaboration with other universities to establish academic bilateral agreements.
- Administered the scholarships offered by QUC, the KRG, Iraqi Government, or and the exchange programs with other universities abroad.
- Organized official travels of QUC authorities abroad and coordinating the stay of the official delegations and guests of the University's authorities in Iraq.
- Administered the international exchange of QUC students, faculty and staff within the frames of the educational programs.
- Offered Consultation and information about study courses, internships abroad, fellowship programs, scholarships and financing opportunities to QUC students.
- Offered support, consultation, accommodation services, orientation and town tour for the international students.
- Coordinated of the exchange teaching programs and international visits for the faculty and staff.

Assistant lecturer

November 2015 – September 2018

Al-Qalam University College – Kirkuk, Iraq

- I worked as an assistant lecturer (part time) in Computer Engineering Technologies Department at Al-Qalam University College.
- I taught several subjects for different stages such as Artificial Intelligence, Image Processing, Object Oriented Programming, and Multimedia.
- I supervised several undergraduate projects such as Classification of DropConnect algorithm using Natural Images Dataset, Online Hospital Info System with Interactive System, Animation of Network Simulation Using Shortest Path Algorithm, Online Sales and Inventory Management System, and etc.

Education Quality Assurance

November 2015 – April 2017

Al-Qalam University College – Kirkuk, Iraq

- I worked as a member of quality assurance unit in Al-Qalam University College.
- We tried to “review the educational programmers in order to ensure that acceptable standards of education, scholarships and infrastructure are being maintained”.

IT Service at UNCG

February 2014 – May 2015

IT Lab Consultant at Information Technology Services – UNCG, NC-USA

- I worked as a lab consultant/supervising and trouble-shoot hardware, software, internet access, and printing issues in computer labs around campus.

Lecturer

September 2010 – February 2011

Al-Rafedin Organization – Kirkuk, Iraq

- Introduced courses in computer operating system (Windows), Microsoft Office , and Internet applications.
- Trained 15 college students in computer systems and tutored them the simplest subjects by explaining the basics of dealing with Windows ,Microsoft Office, and Internet applications.
- Performed computer maintenance. Practiced hardware maintenance, such as replacing damaged parts (CPU, RAM, HD). In addition, performed software maintenance, such as system formatting, system installing and system recovering.

Branch Manager

May 2009 – August 2010

Geometric Design Company – Kirkuk, Iraq

- I worked as a business development manager for the Geometric Design Company.
- Effectively represented the company through owing and managing key relationships with company’s most strategic clients.
- Conducted regular business reviews with clients to grow revenue.

Operator and Computer Technician

March 2005 – October 2007

Networking Center –Kirkuk, Iraq

- I worked on-site in internet system as an operator and computer maintenance.
- Provided hardware/software troubleshooting and repair.
- Provided LAN configuration and network installation of district programs.

TECHNICAL KNOWLEDGE

- **Operating Systems** – Windows [XP/Vista/7/8], Linux [Ubuntu/Mint]
- **Databases** – SQL Server
- **Web Technologies** – HTML, PHP
- **Programming Languages** – familiar with Java, C, C++, Python, Visual Basic, Fortran and Matlab
- **Integrated Development Environment** – Microsoft Visual Studio, Eclipse, NetBeans

AWARDS

- Several awards from the Minter of Higher Education in Iraq, the Chancellor, the Vice-Chancellors of NTU and, the Dean of Al-Hawija Technical Institute.
- Several awards from the Dean of Al-Qalam University College.
- Awarded as a Head of English Activity at Al-Qalam Summer Camp at Al-Qalam Institution of Education.
- Awarded as a top student from College of Science, Computer Science Department at University of Kirkuk.
- Academic achievement award from University of North Carolina at Greensboro-USA (<http://www.uncg.edu/ipg/enewsworthy/internationalstudentoct13.html>)
- Awarded as an outstanding student in graduation ceremony which was the highest honor at Interlink English Language Center UNCG–USA (<http://www.uncg.edu/ipg/enewsworthy/INTERLINKmar12.html>).

PUBLICATIONS

- **Implementation of A Smart Neighborhood to Enhance Energy Consumption**
Solid State Technology Journal v63.3, 7814-7823
(Full Paper) (December, 2020)
 - **Design and implement a self-managed computer network for electronic exams and sharing.**
Indonesian Journal of Electrical Engineering and Computer Science v19.1, 466-475
(Full Paper) (July, 2020)
 - **Design and Implement A Smart Blind Stick.**
Journal of Advanced Research in Dynamical and Control Systems. v11.8, 42-47
(Full Paper) (August, 2019)
 - **A Review of Classification Production using Controlled Conveyor.**
SSRG International Journal of Electrical and Electronics Engineering (SSRG - IJEEE) v5.11, 9-11
(Full Paper) (November, 2018)
 - **Thermal Energy Storage Techniques for Solar Air Collector; An Overview.**
1st Conference of Renewable Energy at Al-Hawija Technical Institute- Northern Technical University.
(Full Paper) (March, 2018)
 - **Prediction of Friction and Forced Convection Heat Transfer of Nanofluid for Turbulent Flow in Tube Heated by Solar Energy.**
1st Conference of Renewable Energy at Al-Hawija Technical Institute- Northern Technical University.
(Full Paper) (March, 2018)
 - **The effect of nature noise in classification of handwritten digits using Deep Learning techniques.**
11th annual UNCG RMSC (Abstract Only) (November, 2014)
(<http://www.uncg.edu/mat/rmsc/2014/talks-abstracts.html>)
 - **Evaluation of the Performance of Deep Learning Techniques.**
Graduate Research & Creativity Expo at UNCG (Thesis Abstract Only) (April, 2015)
(<http://www.uncg.edu/cmp/about/highlights.html>)
 - **Evaluation of The Performance of Deep Learning Techniques Over Tampered Dataset**
University of North Carolina at Greensboro's Library. (Master Thesis) (May, 2015)
(<http://libres.uncg.edu/ir/uncg/listing.aspx?styp=ti&id=18053>)
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PROJECTS

Evaluation of the Performance of Deep Learning Techniques Over Tampered Dataset

This was my master's thesis at UNCG.

- I worked on Big Data and Machine Learning area and focusing on Deep Learning techniques.
- I implemented three modern techniques on Deep Learning which are (No-Drop, DropOut, and DropConnect).
- I created two new datasets which are Toy example dataset and Natural Images dataset from my own Images and the popular handwritten digits dataset(MNIST).
- I came by a new idea which is a new attacking mechanism that can attack any dataset and affect it.
- Then I trained and tested these datasets on these three Deep Learning techniques to measure the error rate in each of them and to find the best techniques among all of them.

Network Simulator

This was a part of my Networking Course at UNCG.

- The project was to design a network simulator, which shows the path followed by a network packet from one system to other.
- The OSI layers were used to represent the system, and the properties of each layer and the contents of the packet can be seen by clicking on it.
- This was developed using Java.

Medical Center System

That was my Advance Database course project.

- Worked in a team to create a project on Medical center system using Java, PHP, and HTML and powered by SQL database.

Minimarket system

That was my Software Engineering course project.

The purpose of this project was to develop an interface for the manager of a catering management company.

- Worked with group of two people to develop this project by using Java.

LANGUAGES

- Arabic (Native Language)
- English (Fluent)
- Turkmen (Fluent)
- Turkish (Fluent)

COURSES

University of North Carolina at Greensboro

- Software Engineering 640
- Advance Database Systems 671
- Foundations of Computer Science 656
- Database System Architecture 672
- Algorithm Analysis / Design 655
- Advanced Theory of Computation 653
- Principles of Computer Networks 567
- Current Prob in Computer Science 695
- Statistical Methods in Education 517
- Thesis 699

INTERESTED

Big Data, Deep Learning, Machine Learning, Database, Image Processing, and any new techniques and subjects in computer science.