

Nasr Mohamed

Lecturer, Researcher, Software Developer

Sharjah - UAE

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Objective:

An academic and research oriented position that requires high programming skills together with solid scientific, mathematical and analytic background.

Summary of Qualifications:

- More than 10 years experience as programmer, developer and systems analyst with a track record of producing high quality enterprise solutions of different types.
- Academic research in several areas of computer science with reasonable contributions and results.
- Intense involvement in many areas of IT: hardware, networking, industrial usage, immersing technology and market condition.

Education:

M.Sc. Computer Sciences - A - University of Sharjah - May 2014

B.Sc. (Honors) Computer & Math - First Class - University of Khartoum - School of Math Sciences - Dec. 1994

Professional Skills:

1. Development of high quality windows applications in C++ (using VC++/MFC/STL/ATL Ver. 6/Net) and C# (using .Net 2.0 3.0 3.5 4.0 - Winforms, WPF) with emphasis on reusable components including userinterfaces, database classes, reporting systems, image processing and games.
2. Development of web applications and web services (using ASP.NET 2.0 3.0 3.5 4.0, WCF).
3. Development/administration of databases in SQL Server 2000/2008 using T-SQL, DTS, OLAP, SSIS, SSAS, SSMS, Performance Management, Replication, High Availability, Distributed Databases and Business Intelligence.
4. Strong command of several reporting applications: MS SQL Reports, Crystal Reports, C1 reports.
5. Wide range of technologies and tools: HTML, XML, ADO, scripting languages...
6. Design and implementation of advanced solutions based on sophisticated mathematical, scientific and analytic algorithms.
7. Development/optimization of parallel and multithreading programs in C++ under Unix (using MPI, pthreads libraries) for multi-CPU and clustered servers.
8. Development of iPhone/iPad applications on xCode using ObjectiveC/Cocoa technologies including remote/local database access.

9. Interfacing applications with many external devices through API's or direct port input / output. This includes integration with biometric devices, laboratory equipments and low level access to scanners, printers, ...
10. Formal systems analysis (requirements, specifications, documentation and design) of different information and accounting systems.

Working Experience:

1. **Lecturer – University of Sharjah:** Sep 2016 – Now.
2. **Systems analyst – Etisalat UAE (Dubai Main Office):** Jan 2010 – Nov 2015.
Achievements: Many applications for finance dept: E-bills application, Payment machines management and several small applications. **Used:** Visual C#, ASP,.Net 4, SQL Server 2008.
3. **Self-employed/sub-contractor programmer/systems analyst:** Jan 2002- Dec 2009.
Achievements: Fulfilled sub-contracting projects under several software houses: Data Circle Co., Amtech Est., 4th Dimension Inc. Developed many complete solutions running in KSA based companies: Trading accounting, point of sales, hotels and furnished apartments, car rentals, shipments forwarders, water treatment plants, private schools, contractors.
Used: Visual C++/C#, ASP, SQL Server 2000/2005, SSAS and many reporting/BI tools.
4. **Bayer Pharmaceuticals Co. - Jeddah:** Programmer, Sept 1998 - Dec 2001.
Achievements: Developed sales reporting/analysis tools and applications.
 Developed an integrated field force application for managing, reporting and analyzing of field activity.
Used: Visual C++, SQL Server 7.0 / 2000, SSAS,
5. **Al-Fursan Computer Center - Jeddah:** Instructor & trainer, Jun 1997- Sept 1998.
 Conducted courses in several programming languages and desktop applications.
6. **Sudan Telecommunications Company:** Programmer, Jan 1995- May 1997.
Roles: Worked in the development team of telephone invoicing system.
Used: Oracle, Developer 2000.

Teaching experience:

1. Teaching university courses in:
 - Computer literacy,
 - IT concepts
 - Programming
2. Teaching in computer training centers:
 Many introductory courses in computer, internet and programming languages. This covers topics like:
 - MS Office;
 - internet and internet security skills;

- basics of web designing and web programming; □ introduction to programming languages (VB, VC++, VC#);
 - Databases and database theory.
3. Training on specific business packages (as part of development cycle).

Academic publication:

1. "Enumeration of Spanning Trees Using Edge Exchange With minimal Partitioning". Master thesis. 2014.
2. "Construction of Polyhedral Nets: A Mining Approach". With Ashraf Elnagar. IJMIA: International Journal on Data Mining and Intelligent Information Technology Applications. 2013.
3. "Performance evaluation of a network flow based algorithm for multi robots coordinated motion planning". With Ashraf Elnagar. In Robotics, Automation and Mechatronics (RAM), 2013 6th IEEE Conference on. IEEE. 2013.
4. "Arabic Writing Optical Recognition". Graduation project. 1994.
5. "Asymptotic Limit of Pendant Nodes and Cut Nodes in Random Graphs", With Ashraf Elnagar (*under process*).
6. "Minimal Partitioning Algorithm", With Ashraf Elnagar (*under preparation*).

Other:

Birth: Khartoum - 1972
Marital Status: Married
Nationality: Sudanese