

# HASSAN SAHYOUN

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## OBJECTIVE

Information Technology Lecturer, Database Design and Implementation, Software Engineering.

## PROFILE

- Master degree in Computer Science.
- Over 20 years information technology lecturer in the UAE.
- Over 12 years of industry experience and software engineering in Canada.
- A strong ability to solve problems quickly and effectively.
- Interest in solving challenging programming problems.

## TECHNICAL SKILLS

- C/C++/C#, Java, Java Scripts, HTML and CSS.
- Database design and implementation (Oracle, MS SQL, MySQL).
- Database Programming/Stored procedures PL/SQL (Oracle and MS SQL).
- PHP, Android Studio and Flutter
- Systems development (analysis, design, coding, testing, implementation).
- Windows, UNIX/LINUX, and Mac OS operating systems.
- Mobile Applications.

## SOFTWARE PACKAGES

Visual Studio, Android Studio/Flutter, Netbeans, Eclipse, Dreamweaver, Microsoft Office.

## POSITIONS

### ***Jan 2019 – current: IT Lecturer***

position at Ajman University, Ajman, U.A.E.

### ***Feb 2018 – Jun 2018: IT Teaching Assistant***

position at Ajman University, Ajman, U.A.E.

### ***Sep 2012 – Sep 2013: Technical Analyst and System Coordinator***

Admin Position for Student Information System of Ajman University.

### ***Apr 2001 - Jan 2018: IT Lecturer***

Previous position at Ajman University, Ajman, U.A.E.

### ***Oct 1989 – Mar 2001: Advisory IT Professional***

IBM Canada Corporation, North York, Ontario, Canada

## EDUCATION

***1988 - Master of Science***, University of Pittsburgh, Pennsylvania

Major: Computer Science

***1985 - Bachelor of Science***, King Abdul Aziz University, Jeddah, Saudi Arabia

Major: Mathematics and Computer Science

## LANGUAGES

Arabic : Mother tongue – Reading, writing and speaking well

English : Reading, writing and speaking well

French : Reading good, writing and speaking fair

## **EXPERIENCE**

### ***Ajman University – technical analyst and coordinator for SIS (2012/2013)***

- Worked for one year as a technical analyst and system coordinator between instructors and the development team of (SIS) Student Information System of Ajman University.
- Work involved investigating .Net, C# code and database to decide where to make changes.

### ***Ajman University – Information Technology Lecturer (2001-2017):***

- Algorithm and Problem Solving using JAVA,
- Database Design and Implementation using Oracle PL/SQL,
- Database Management Systems using Oracle,
- Data Structures using JAVA,
- Decision Support Systems using Excel,
- Fundamentals of Web Systems (HTML5, CSS, and Java Scripts),
- Human Computer Interaction (JAVA-Netbeans),
- ICDL training courses,
- Introduction to Computers,
- Mobile Applications using Android Studio and NetBeans,
- Object Oriented Programming using JAVA,
- Operating System – Linux, Windows XP/7/8/10, and Mac OS/10,
- PC Applications (MS Word, Excel, Powerpoint & Access),
- Programming I in C/C++,
- Programming II in C/C++,
- Project Management using MS Project 2013,
- Software Engineering/System Analysis and Implementation (UML, JAVA-Netbeans)
- Web Technologies (.Net, PHP, J2EE-Eclipse)

### ***Ajman University – Information Technology Lecturer (2009-current):***

- IT Fundaments (Arabic & English lectures)
- Tutorial of Object Oriented Programming
- Tutorial of Data Structures

## **Personal Activities**

**Besides education,** I developed many pieces of software that help instructors in their academic work. For instance I developed the following programs/systems:

- An Advising system that tracks students' registration and predicts what courses must be registered by every student in the next semester and number of students that are expected to register in every course. Plus number of remaining credit hours for every student and what courses must not conflict.
- A JAVA GUI program that connects to any SQL database server, send SQL or PL/SQL commands, receive, and display results/errors.
- A JAVA system to manage and track courses outcomes per semester. The system connects to the university registration system (SIS) and extracts courses information, students registration, personal information, and study plans. It allows users to create assessments and enter questions and marks of students per question, then it generates statistics and reports in various formats.
- A JAVA/C# system to control and monitor students in the labs during exams. It stops students from opening a list of applications that is stored in a file and reports to the instructor any attempts to open any of the forbidden applications or using a USB drive. Student name and ID are displayed to the instructor along with the attempted application.

**Outside the university,** I wrote the following software:

- A C++/C# system to control child usage of a PC. The system allocates start and ending time per day, minutes per session, and breaking minutes between sessions. The system has a service written in C# and it monitors the login/logoff and screen lock.
- A JAVA FX application that saves the screen on demand, looping through a list of internet or local links playing videos with full controls.

## **HOBBIES**

Programming, fixing/creating basic electrical/electronic & mechanical devices, swimming and reading.

## REFERENCES

Dr. Mirna Nachouki head of IT Department Ajman University, Ajman, UAE <a href="mailto:mirna@ajman.ac.ae">mirna@ajman.ac.ae</a> Tel: +971 6 705 6636	Dr. Mahmoud Abou Neaj Associate Professor, college of IT Ajman University, Ajman, UAE <a href="mailto:abounaaj@ajman.ac.ae">abounaaj@ajman.ac.ae</a> Tel: +971 6 705 6915	Mr. Bassem Kassar Project Manager RTA, Dubai, UAE <a href="mailto:bassem.kassar@rta.ae">bassem.kassar@rta.ae</a> Tel: +971 4 290 4841
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## *History – Occupied positions and projects*

### ***IBM Canada – VisualAge JAVA/ DB2 Advisory IT Professional:***

Convert IBM compensation system from AS400 to Windows based system using DB2/2 and VisualAge JAVA. The old system had client programs written in C++ and a database stored on AS400 that needs to be re-created every year. My duties were:

- Analyze requirements and design the new system. (Database and client GUI)
- Assign tasks to members of team (3 people).
- Prepare the technical environment for programmers.
- Allocate VSAM space and create database tables on AS400 for year 2001 (to make it available while we write the new code).
- Modify stored procedures on AS400 to work with the new year.
- Migrate database from AS400 to Windows.

### ***IBM Canada - VisualAge JAVA/ DB2 System Analyst/Programmer:***

Convert IBM Consolidated Dealers Reporting system (see next paragraph for details) from C++ to JAVA. The work involved analysis, design, coding and testing of shared JAVA components and DB2 stored procedures plus user test support and installation of the new system.

### ***IBM Canada - VisualAge C++/ DB2 Analyst/Programmer:***

Analyze, design and develop subsystem applications for IBM Canada Consolidated Dealers Reporting system. The system consists of multiple independent C++ GUI programs that processes sales of IBM business partners to various distributors. All programs share one database that is managed by a DB2/2 SQL RDBMS . Work involved design and implementation of database tables and stored procedures, GUI design and coding using customer specs, debugging using VisualAge C++, testing, fixing code, supporting user test and installing the system.

### ***Bank of Montreal - IVR Developer:***

Analyze, design and develop IVR (Integrated Voice Response) applications for Bank of Montreal Telebanking system using DirectTalk/6000 on RS/6000 platforms and UNIX operating system. The work involves programming of new codes, modifying existing codes, installing system at Bell Canada telephony hardware. High team cooperation and alignment of work was required.

### ***PHH Canada - Microsoft SQL and Dbase V: Customize and implement LAN based System.***

The system has a client-server architecture with PCs communicating over a Token Ring LAN/WAN with a Microsoft SQL database server using OS/2 operating system.

Duties involved design of subsystems, changing existing code, writing new programs in Dbase IV/V language to create user interface screens, retrieval, manipulation and organization of data according to the users requirement, writing printer drivers ( for HP LaserJet II and 4 Plus Si series), plus optimizing database access (add/remove/force indexes and using stored procedures instead of embedded SQL commands).

### ***Amsterdam Stock Exchange System - Tandem C:***

A very large system that has been required in a short time. High programmig skills and work alignment with with team members.

This system required knowledge in Tandem ( TAL , special C and parallel processing ) and UNIX C programming. Special communication protocols were designed and programmed for this project. High technical skills were required to optimize the code for high performance. The target was to handle the data coming from the various stock markets of Europe and refresh the screens of the busy stock market in Amsterdam every one second.

Duties involved coding of configuration process, writing many processes that collect data from multiple sources and distribute it to multiple queues depending on type of data. Writing generic C function to handle data conversion across different platforms.

***Crystal Reports - Microsoft C++:***

This project involved coding in Microsoft Visual C++ to create DLLs to link Crystal Reports functions to other dynamic objects written to run under Windows environment. The DLLs contained functions that connect to a database server and generate reports with dynamic parameters and selection criteria.

***ISM Network Employees Time Reporting System - Clipper:***

This is an internal project that involved converting and enhancing an existing time reporting system for employees from single user program to multi-user program with different security levels for managers, team leaders and employees.

***BC Ferry Corporation - C, JAM and Sybase:***

Acting as Programmer/Analyst for the customization and implementation of the ISM Reservation System for this major Canadian ferry company.

The system has a client-server architecture with PCs communicating over a Token Ring LAN/WAN with a Sybase database on an NCR/UNIX server

***Cantel telecommunications company - C and Oracle:***

On a part-time, subcontracted basis, involved in the establishment of the technical Client/Server environment and development of a new Order Management system. This system had to manage extremely complex and customized orders, tracking them from initiation through to production and delivery.

The technical environment was Macintosh PC's running JAM under XWindows emulators networked to SUN workstations and connected to SUN servers running Oracle under UNIX. Duties included technical setup of the environment and creation of programs for the first working release.

***A&A Records - a Toronto-based retailer:***

Development of a Retail Sales Analysis and Reporting system for A&A Records company in Toronto using Sybase, UNIX, DOS, C, JAM and Microsoft Windows.

Major involvement included:

Systems analysis.

C programming on PC front-end.

Developing Sybase Stored Procedures on UNIX server.

Installing communications software ( FTP/TCP ).

***Shun Tak Ferries Ltd. (Hong Kong) - C and Sybase:***

Development of a Ticketing and Reservation System for a client in Hong Kong. This system handles reservations, ticket sales, refunds, and reporting functions, for services provided to passengers using jet foils, ferries and helicopters between Hong Kong and Macao.

The system used Sybase on a Stratus fault-tolerant host. Client software, was written in C and JAM.

Major involvement included:

Developing Sybase Stored Procedures on Stratus host.

C programming on the PC front-end.

Fine-tuning of databases.

Analysis, specification and programming of system enhancements.