Ahmed Isam Abdelrahim

Software Engineer

Summary of Qualifications

-Over two years of experience in large scale software development using C/C++ and Qt.

-Over two years of experience in developing web applications with ASP.NET and PHP.

-Experience of developing native Android, MeeGo, Symbian and iOS mobile applications using native tools, and developing hybird applications with HTML5 and Jquery (mobile) sets of technologies.

-Good software engineering skills, strong analytical, problem-solving and communication skills, eager to learn and develop new skill.

-Experience in database systems and designing powerful relational models.

-Experience in object oriented analysis and desing, UML and designing with patterns.

-Ability to architect and desing complete systems using state-of-arts technology.

Education

October 2004 – July 2010	**Bachelor (BSc) Degree in Computer Sciences**, *University of Khartoum*, Faculty of Mathematical Sciences, *Second-class Honours, upper division (2:1)*.

Certification

November 2010	**Nokia Certified Qt Developer**.

Technical skills

Programming languages	C ,C++, Java, PHP, Java Script, ASP.NET, C# and x86 Assembly
Frameworks	Qt, .Net, Jquery, Android and CodeIgniter
DBMS	MySQL, SQLite, PostgreSQL ,MS SQL Server and Oracle
VCS	Git,Svn,CVS
OS	Linux, Windows
Typesetting	LaTeX

Experience

Full time

December 2010 – present

Software Engineer, *Center of Excellence in Information Assurance*, King Saud University, Saudi Arabia.

Serving as software engineer, my main responsibilities include *gathering and analysis requirments, software desing and implementation, software testing, assist researchers.*

Key achievements:

○ **Parental Control System (Hajeb) - Software to Control PC and Internet**:
  - *Description*: Software suite to constrain the usage of computer and internet. its capable of blocking unwanted web sites and programs, disconnect the internet, monitor keystrokes and screen, sniffing http requests, manage each windows user in a separate profile.
  - *Role: Team Lead (Team of one).*
  - *Technology/Libraries:* C++, Qt, Win32 API , Layered Service Provider (LSP), SQLite.
  - *Project size/Time:* 6 month project, +11K Line of Code.
  - **Accepted as real case for Qt in Nokia website:** `http://qt.nokia.com/qt-in-use/project?id=a0F20000006M9TYEA0`
○ **Privacy Control (CPC) - Software to Protect PC Privacy :**
  - *Description* : Developed a high level security application designed to help you completely eliminate sensitive information from your computer, protect your Internet privacy, and enhance system performance. CPC also functions as a wonderful clean up utility by removing useless files that slow down your computer.
  - *Role: developer (Team of Three)* : I've involved in the desing and architect of the software, implement the most of the GUI stuff and help the developers to write custom model and custom tree to hold the data.
  - *Technology/Libraries:* C++, Qt, Win32 API, PHP, MySQL.
  - *Project size/Time:* 3 month project, +5K Line of Code.
○ **Document Authentication system with QR-code**
  - *Description* : A prototype software to secure hard copy document from fraud and forgery by using 2D barcode tag containing some encrypted text from the orginal document so the other side can decrypt it and verify that no forgery occurs.
  - **Award**: The project won a gold medal in the British Invention Show 2011 (read more)
  - *Technology/Libraries:* C#, Public/Private key encryption, QR-Code, Gemalto smart card.
○ **Offline One Time Password Generator (Offline OTP)**
  - *Description* : A software suite provide the 2nd factor authentication for websites, It consist of server side web service that should consumed by the website for registeration users and verifying the OTP, and client side mobile application (Android) that will be use by the user for generating the OTP.
  - *Technology/Libraries:* C# , ASP.NET, WCF, SOAP, Java, Android.
○ **Information security awareness system (General Rawam)**
  - *Description* : National awareness system in the field of information security targeting governmental and private sectors. its a web application consist of awareness video that presents information security concepts and a test to measure the benefit gained by the employee after watching the video. Also the system provide certification for the successful employees.
  - *Role: Team lead and architecture (Team of three)* .
  - *Technology/Libraries:* C# , ASP.NET, Ajax, Jquery.

Part time

2011

Linux RedHat Engineer, *Saudi Telecom Company*, Saudi Arabi.

Work as Linux RedHat consultant.

Some of the tasks: RedHat installation, manage users and groups, installation and configuring servers (DNS,DHCP,FTP,...etc.), logs and reporting, backups, write shell script and automation tool and troubleshooting.

2011 **Web developer**, *Modern Technology*, Saudi Arabi.

Work as web developer for large scale voting system that accept votes via SMS, Email and Twitter
Technology/Libraries: PHP, Code Igniter, MySQL, XAMPP, Java, Ant, JUnit, C++, Java Script, AJAX, JQuery, Gnokii, Linux.

Academic Projects

eqraOS: An open source operating system written from scratch for academic purpose (graduate's project), it support alot of modern OSs features like 32-bit PMode,interrupt-based,hybrid kernel,HAL layer,basic C++ runtime support,virtual memory with paging,support up-to 4 GiB physical memory,FAT12 file system,keyboard driver and boot from USB/CD (C/C++,Assembly).

Al-Moazen: Cross platform GUI application for calculating Muslim prayers times by a powerful mathematical equations. it has a handful of features like Azan, Azkar and ability to run on Windows,Linux,Embedded devices and Mac OS X (C++/Qt).

Mobile Game: TicTacToe for nokia symbian mobiles, it has two game modes: standard and extension mode and it support online playing with Internet or bluetooth. also the player can choose to play to other player or to the AI mobile.(C++/Qt).

Al-Mymana medical accouting system: System for managing accounts for Al-Mymana medical in Sudan (C++/Qt).

Languages

Arabic   native language.

English   working knowledge (excellent in reading, good in speaking & listening).

Community Experience

2008 -   Moderating Qt Arabic community `http://qt-ar.org`.
present

2008 -   Moderating Computer science community in Sudan `http://sudancs.com`.
present

2009 -   Cross platform Administration in `http://arabteam2000.com`.
present

Honours and Awards

July 2011   Nokia Qt Ambassador.

May 2010   2nd place for University of Khartoum - Faculty of Mathematical sciences "School Got Talent" programming competition.

Personal Skills

Perfect ability to meet deadlines and work under pressure.

Ability to work individual and as part of a team.

Ability to think "outside the box".

Personal Information

Nationality   Sudanese.

Marital   Single.
Status

Date of Birth   24 - Aug- 1985.

Referees

Available on request.