



# Ahmed Isam Abdelrahim

*Software/System Engineer*

## Summary of Qualifications

- Experience in Redhat linux systems administration, including analyzing, designing, developing tools, installing, maintaining, and repairing hardware, software, peripherals, and networks.
- Good software engineering skills, strong analytical, problem-solving and communication skills, eager to learn and develop new skill.
- Over one year of experience in large scale software development using C/C++ and Qt.
- Over one year experience in developing cross-platform desktop and web applications.
- Experience in database systems and designing powerful relational models.
- Experience in object oriented analysis and desing, UML and designing with patterns.

## 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)*.  
Description

## 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, Android and Codelgniter
DBMS	MySQL, SQLite, PostgreSQL ,MS SQL Server and Oracle
VCS	Git,Svn,CVS
OS	Linux, Windows
Typesetting	L <sup>A</sup> T <sub>E</sub> X

*Saudi Arabia – Riyadh*

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## 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 requirements, software desing and implementation, software testing, documentation, assist researchers.*

Detailed achievements:

- **Parental Control System (Hajeb) - Software to Control PC and Internet:**
  - *Description:* a complete software suite to constrain the usage of computer and internet. its capable of blocking unwanted web sites and programs , disconnect the internet, monitor keystrokes, monitor 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 original document so the other side can decrypt it and verify that no forgery occurs.
  - *Technology/Libraries:* C# , Public/Private key encryption, QR-Code, .Net Gemalto Smart card.
- **One Time Password Generator OTP**
  - *Description :* One time password generator.
  - *Technology/Libraries:* C# , ASP.NET, WCF, SOAP, Java, Android.

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## 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.

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## 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).

**AI-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).

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## Languages

Arabic native language.

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

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## Community Experience

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

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

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

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## 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.

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## 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".

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## Personal Information

Nationality Sudanese.  
Marital Status Single.  
Date of Birth 24 - Aug- 1985.

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## Referees

Available on request.

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