

# Ahmed Isam Abdelrahim

Software Engineer

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## Summary

3 years of experience in software development using C++ and Qt

2 years of experience in developing web applications with ASP.NET and PHP

Experience in developing mobile applications(Android, Meego) using native tools, and HTML5

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 design with patterns

## Experience

### *Full time*

#### **Software Engineer at Center of Excellence in Information Assurance, King Saud University**

Saudi Arabia, December 2010 – present:

Design and implement commerical parental control system to control internet browsing and blocking of websites and software (C++, Qt, Win32 API, Layered Service Provider)

Implement a research product to generate offline one time password (OTP) as 2nd factor authentication (C# , ASP.NET, WCF, SOAP, Java, Android)

Design a prototype software to secure hard copy document from fraud and forgery by using 2D barcode tag (C#, Public/Private key encryption, QR-Code, Gemalto smart card). The project won a gold medal in the British Invention Show 2011

Implement utility software to remove all histories and temporary files from PC, with all related functionality: Licenses and Auto-update (C++, Qt, Win32 API, PHP, MySQL)

Lead team of three to design and develop online training/examination system in the field of information security, targeting governmental and private sectors (C# , ASP.NET, Ajax, JQuery)

### *Part time*

#### **Software Engineer at Sure**

Saudi Arabia, June 2012 – present:

Design and implement a generic role based access control (RBAC) module to be used in sharepoint sites (C#, ASP.NET)

Implement mobile based clients for online enterprise web services (Java, Android, HTML5, Phone-gap).

Implement enterprise web services and Internet/Intranet applications for Ministry of Health in Saudi Arabia.

**Linux RedHat Engineer at Saudi Telecom Company**

Saudi Arabia, 2011:

Maintain linux server, manage users and groups and write some data format converter tools.

## Academic Projects

Implement tiny operating system for academic purpose (my graduate project), it support 32-bit PMode, virtual memory with paging, up-to 4 GiB physical memory, FAT12, keyboard driver and boot from USB/CD (C/C++,Assembly)

Cross platform application for calculating prayers times (C++/Qt)

TicTacToe for nokia symbian mobiles (C++/Qt)

## Education

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

## 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

Build System: make and cmake

OS: Linux, Windows

Typesetting: L<sup>A</sup>T<sub>E</sub>X

## Certification

Nokia Certified Qt Developer, November 2010.

Nokia Qt Ambassador, 2011.

## Personal Information

Nationality: Sudanese.

Marital Status: Single.

Date of Birth: 24 - Aug- 1985.

Last updated: December 28, 2012

<http://ahmadessam.com>