

# Naveed Quadri

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[naveedmurtuza.github.io](https://naveedmurtuza.github.io)

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A versatile software developer specializing in creating both desktop based and web based applications using different languages and frameworks having more than 6 years of experience.

## Key Skills

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### Languages

C, C++, C#, Java, SQL , PHP, HTML, XML, JavaScript

### Databases:

MS SQL Server, MS SQL CE, MySQL, MS Access, JavaDB, SQLite, H2

### Technologies:

.NET Framework 2.0 - 4.5 , ASP.NET, MVC, ADO.NET, CSS, AJAX, WCF, Silverlight,  
WPF, IIS, LINQ, JQuery, Netbeans RCP, SOAP, VSTO, Entity Framework,  
BouncyCastle, Drupal 7, Laravel, REST

## Work Experience

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Position: **Senior Software Developer**

**ComSpots Est./ e-sealed Est. , Riyadh, K.S.A**

**July 2009 -present**

### Projects:

#### Secure Phone - PC Suite

##### Description:

Secure Phone provides the user a secure encrypted channel to communicate over the dialup/GSM networks. Secure Phone - PC Suite is a Key Management application to generate &manage cryptographic keys in the device, the software also supports other features such as remote key update of the device, sending SMS, sending custom APDU commands for administrative tasks etc.,

##### Language / Tools:

C#, MS SQLCE, Winforms, VS 2010

##### Roles:

- Developed a library in C# for communicating with device
- Used MS SQLCE for maintaining an auditable database of generated keys for recovery purposes

#### PKI Suite

##### Description:

A desktop based certificate management platform that enables system administrators to efficiently manage their X.509 Certificates and assists the administrators to handle the PKI management

functions like issuance, renewal, revocation of certificates.

Language / Tools:

C#, Winforms, MS SQLCE, BouncyCastle, VS 2010

Roles:

- Used & extended BouncyCastle to use our HSM for generating TRNG and other cryptographic capabilities supported by the HSM
- Used MS SQLCE for maintaining an auditable database of generated keys for recovery purposes

**Dalily - Caller ID**

Description:

Dalily is a free service which helps identify unknown calls with Caller ID, blocks unwanted spam, scam calls all over the GCC reported by our users.

Language / Frameworks:

PHP, MySQL, Laravel, REST, OAUTH, Apache Solr

Roles:

- Design, implementation and documentation of REST APIs for collection and retrieval of name & numbers.
- Implemented the authentication mechanism to authenticate & validate every request.
- The API also restricts the number of requests that can be made per day and also requests a CAPTCHA validation after every 'x' requests
- Deployed an Apache Lucene/Solr search to help speed up the search by name feature Dalily database.

**CS Generic Fingerprint SDK**

Description:

CS Generic Fingerprint SDK is a Software Development Kit (SDK) that provides a generic & flexible platform for the development and programming of biometric fingerprint readers into any application. The goal of the SDK is to allow using fingerprint devices from different vendors (supports 6 vendors) through a common interface provided by the SDK

Language / Tools:

C++, C#, Java, WPF, PowerShell, Visual Studio 2013

Roles:

- Requirement Gathering
- Design & implemented using C++ a generic and extensible API to communicate with fingerprint readers from different vendors
- Wrote the JNI code & pinvoke signatures to enable the use of this library in managed environments (C#, Java)
- Developed demo applications to exhibit the features of the API in Java (Swing) & C# (WPF)
- Wrote powershell scripts to automate builds, convert c++ enums to c# enums and java constants
- Testing & developer documentation

## **PNU REST APIs**

Description: The official mobile app of the Princess Nourah University , designed to enhance the experience of students, faculty, staff, alumni and friends. It allows you to navigate campus, view the latest news and events, and access University information and services such as course timetables, library catalogue and account, address book and much more.

Language / Tools: C#, asp.net, Oracle 11i, VS 2013

Roles:

- Design, implementation and documentation of REST APIs for retrieving and delivering information to mobile apps
- Implemented active directory authentication to authenticate & validate every request.

## **Two-factor Credential Provider (Vista/7/8)**

Description: The Two-factor Credential Provider aims to improve the overall security of the windows logon process by adding one time password to windows logon screen. The OTP is provided by the OTP hardware token. A high precision calibrated real time clock is connected to the server and synchronized with the OTP hardware token. A RPC service running on the server verifies the OTP.

Language / Tools: C++, Visual Studio 2013

Roles:

- Designed and implemented the windows credential provider using C++
- Implemented customised time based OTP algorithm
- Using C++, implemented RPC to communicate with credential provider and verify the OTP

## **Freelance Projects**

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### **Crystalize [<http://glitz-crystalart.com/> ]**

Description: Crystalize is an image manipulation / editor application developed for glitz - Crystal Art. The application aids in crystallizing portraits. Supports rich features such as custom canvas, layers, crystals' palette, Printing , unlimited undo-redo, image editing features as resize, rotate, crop, adjusting brightness, contrast.

Language / Tools: C#, Visual Studio 2010

## Education

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Master of Science (Computer Systems & Networking) June 2008  
*University of Greenwich, London, UK*

Bachelor of Technology (Computer Science & Engineering) April 2005  
*JNT University, Hyderabad, India*

## Personal Profile

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Full Name: Syed Naveed Murtuza Quadri  
Date of Birth: 22 July 1983  
Marital Status: Single  
Nationality: Indian