

Resume

FAISAL MAQSOOD

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Objective

To pursue my career in a dynamic organization where I can apply my skills & expertise to achieve professional excellence and personal growth.

Skills Summary

- Total Professional Experience: **Jan-2001 → Present** (5+ years) of software development experience. MY INTERNSHIP AND FINAL PROJECT ARE EXTRA TO MY PROFESSIONAL EXPERIENCE.
- Development experience of large number of server side, client side and desktop software products and projects using Java and related technologies.
- Strong development experience working alone and in a team.
- Excellent knowledge of ASN.1, Cryptography, PKI (Public Key Infrastructure) and related standards and specifications.
- Strong skills for picking up new technologies, ideas, concepts and can demonstrate exceptional interpersonal, analytical and problem solving skills.
- Track record of increasing responsibility in system analysis, design, development and project management.
- Hands-on experience of leading all stages of software development, including requirements definition, design, development, maintenance and support.
- Outstanding leadership abilities, able to coordinate and direct all phases of project-based efforts while managing, motivating, and leading project team(s).
- Skilled in using windows API libraries with Java, Object Store API for Java.
- Excellent oral and written communication skills.
- Implemented systems like database, graphical, and client/server that uses the technologies like multithreading.
- Have done "Identrus Compliency" in almost all major products to capture market for most optimized and demanding standard.
- Analyzed and designed systems using structured as well as object-oriented methodologies.
- Strong skills for R & D plastic card network and of PKI for the digital signature, verification, encryption, decryption, CA, OCSP, LDAP, SCVP, PDF, XML, EMV, applets signing for all possible different formats like Netscape, Sun Microsystems, Microsoft.
- Hands-on expertise for HSM (Hardware Security Module) usage and Smart Card usage for security in PKI, EMV, and Plastic Money cards (VISA, Master and EMV).
- Experience of plastic card money financial transaction architecture (Using ISO 8583) and flow of data by using ACH international standard.

Educational Summary

Degree	Major Subjects	Institute	Passing Year
MCS	Computer Science (Software Engineering)	American International University Lahore Campus Pakistan.	Oct-2000
B.Sc.	Pure & Applied Mathematics & Physics	Punjab University Lahore Pakistan.	Aug-1999

Technical Skills & Tools Exposure

Operating Systems	Intel Pentium (Microsoft Windows 98, 2000, XP, 2003, Red Hat Linux 7.2), Sun Sparc Station (Sun Solaris 7, 8)
Languages	Java, XML, HTML, VC++, Visual Basic 6
Protocols	HTTP, HTTPS, OCSP, LDAP, LDAPS, SCVP, TSP (RFC-3161), SOAP

Standards, Drafts & Specifications	PKI, PDF, EMV, SCVP-15, PKCS#(7, 10, 11, 12), X509.(Certificates, CRLs) RFC(2459, 3280), SSL, OASIS DSS, XML, X509.Digital Signatures/Verification, X509.Digital Encryption/Decryption, PDFSignature, PDFSealing, CORBA, ISO 8583, EFund
Sun Java Technologies & APIs	Core Java, Java Networking, Java IO, Java Swing, Java Applets, JDBC, JNI, Java Security (JCA, JCE, JSSE), Servlet & JSP, Web Services
Other Java Technologies & APIs	Netscape LDAP, JavaGroups, Java Service Wrapper, iText, BouncyCastle JCA/JCE Provider, Assembla JCA Provider, IAik Cryptography APIs (JCA/JCE/JSSE Provider, TSP, PKCS#11 Wrapper, CMS), Flash 4 & 5 with Flash Scripting
Enterprise Servers	Apache Tomcat, Netscape Directory Server, SunONE Identity Server, Netegrity SiteMinder Policy Server, Microsoft IIS
Hardware Security Modules (HSM)	AEP Sureware Keyper, Chrysalis-ITS Luna CA3, nCipher nFast, Eracom, Baltimore, Eracom WhiteProtectHost PL23
Smart Cards	Datakey CIP, Oberthur, Rainbow USB Tokens, Gemplus
DBMS	SQL Server , Informix, Oracle 8.0, Oracle 8.05, MS Access, My SQL
Tools	OpenSSL, Borland JBuilder, Websphere, Borland OptimizerIT, Retroguard Java Obfuscator, RoboHELP HTML, Adobe Acrobat, Microsoft Office, Microsoft Visio, Microsoft Project, Microsoft Visual SourceSafe, CVS, SVN, InstallShield Professional 2000 (6.1 & 6.2), InstallShield DevStudio 9, Install Us, Kawa 4.01, Crystal Reports 7.0, 8.0, 9.0, Adobe Reader 6.0, Acrobat Professional 7.0, Putty, WinSCM, JUnit, Enterprise UML, Microsoft Outlook

Employment History

Leadership experience with research & support team.

Innovative Private Limited (IPL, I2C), Lahore Pakistan (www.innovative-pk.com)

Team Lead & CMMI Analyst [Senior Software Engineer]

Nov-2005 → Present

- ◆ Responsible to manage the team for tasks assigning, priority of each task, time frame for each task, supporting resource availability, corresponding tasks grouping of other team so that task can be upload as a unit for customer use
- ◆ Active member as "*Measurement & Analysis*" of process for CMMI certification
- ◆ Responsible to report the team work output to CEO by getting in touch with team for the updates
- ◆ Responsible to study the existing architecture & design and to find areas/module for improvements
- ◆ Responsible to review the codes for OOP approach, coding standard, performance issues, requirement missing, configuring each possible activity, logging improvements and defining log level to each statement in the log and for enhancement
- ◆ Improved design of application by introducing database and HSM connection pooling called from multiple JVMs
- ◆ Improved communication process to remove communication gap
- ◆ Problem solving of each team member either it is required in business logic or at company level
- ◆ Implementation of "*AJAX technology*" is in progress to behave the web application as desktop application for user convenient, good performance and to avoid un-necessary call to server
- ◆ Responsible of presentations to guide the team for client requirements and how we will implement the business logic to approach it and which API to use
- ◆ Responsible for security issues for online transaction to protect from middle man attack and to manage Eracom HSM WhiteHostProtect PL23
- ◆ Involve in hiring new staff

Prosol Technologies (Pi Sigma Group), Islamabad Pakistan (www.prosol.com.pk)
Security Manager & Designer [Senior Software Engineer]

Aug-2005 → Nov-2005

- ◆ Have done web application as part of free online educational portal
- ◆ Implemented **AJAX technology** to behave the web application as desktop application for user convenient, good performance and to avoid un-necessary call to server
- ◆ Responsible to guide the team for DOM understanding and its usage
- ◆ Responsible to study the existing architecture & design and to find areas/module for improvements
- ◆ Responsible to point performance issue areas in the existing design of the application and to discuss with client to get approval
- ◆ Get in touch with team for the updates
- ◆ Responsible for security issues for online transaction to protect from middle man attack
- ◆ Responsible to enable secure communication and to configure deployment server with digital certificates
- ◆ Involve in hiring new staff

Ascertia (PVT) Limited, Lahore Pakistan (www.ascertia.com)
System Analyst [Senior Software Engineer]

Aug-2001 → Sep-2005

- ◆ Responsible for system analysis/design user requirements, R & D, lead the development of almost all Java based products and projects (mentioned below) and also support activities.
- ◆ Responsible to review the designs before getting approved from Client
- ◆ Involve in hiring new staff and ensuring the good working environment for the staff.
- ◆ Provide technical training to new staff on Java, Cryptography, PKI and existing Java based PKI products.
- ◆ Have done extensive software development in PKI, implemented CA (X509 & EMV API), OCSP (Server & Client), SCVP (API, Server & Client), solutions for digital encryption and signing (Server & Desktop).
- ◆ Have implemented "Identrus Compliency" in all major products to fulfill market demand.
- ◆ Have used most famous HSMs (AEP Sureware Keyper, Chrysalis-ITS Luna CA3, nCipher nFast, Eracom, Baltimore) and Smart cards (Datakey CIP, Oberthur, Rainbow USB Tokens).
- ◆ Have developed number of products and projects using Core Java, Java Networking, Java IO, Java Swing, JDBC, JNI, Java Security, Serialization, J2EE, Java XML and Web Services technologies.
- ◆ Have done software development for signing, encryption all type of files by using PKCS#7 standard of customized solution.
- ◆ Have done software development for PDF signing, sealing and time stamping for long term signature by using PDF reference guide.
- ◆ Party management for novice to Ascertia as well as arranging farewell to leavers.

Considersoft, Inc., Lahore Pakistan (www.considersoft.com.pk)

Software Engineer [Team Member]

Jan-2001 → Aug-2001

- ◆ Responsible for development of client's customized requirements
- ◆ Responsible for bug fixing either raised by client or by QA team.
- ◆ Have developed Inventory Systems, Payroll Systems and Information Systems using VB6, Oracle 8.0.5 and Crystal Report Writer 7.0
- ◆ Help the web team for flash scripting.

Considersoft, Inc., Lahore Pakistan (www.considersoft.com.pk)

Internee Software Engineer [Internship]

Oct-2000 → Dec-2000

- ◆ Have learnt and implemented software life cycle.
- ◆ Component based programming and how to merge each component to make a complete project.

Professional Projects

- ✓ **EMV-CA** (Europay Master Visa Certification Authority)

Client

Actalis (www.actalis.it)

Role

API Architect (Designing & Development)

Environment

J2SE 1.4, JSP/Servlets, Jakarta Struts, Tomcat, BouncyCastle JCA/JCE Provider, Eracom PKCS#11 Wrapper, HSM (Eracom), MySQL, Windows 2000/2003 Server, Red Hat Linux 7.2

Actalis has been operating the EMV CA on behalf of the Italian payment system since 2001. In such a role, Actalis issues testing and production EMV certificates to all Italian banks. The EMV certificates have the format described in EMV specifications and the EMV certificate files exchanged with banks follow the Europay RA specification. Actalis is now planning to use new EMV-CA software to issue the EMV certificates to Italian banks.

- ✓ **PDF Sign&Seal** (Advanced PDF signing on the desktop without Acrobat)

Client

Ascertia Pvt. Limited (<http://www.ascertia.com/products/pdfsignseal/>)

Role

Team Leader

Environment

J2SE 1.4, JNI, IAIK JCA/JCE Provider, IAIK PKCS#11 Wrapper, IAIK CMS, IAIK TSP, iText PDF Library, Windows XP/2000 Professional/2000 Server

PDF Sign&Seal brings enhanced digital signature and time-stamping capability to PDF documents and e-forms, with the unique benefit of not requiring full Adobe Acrobat® or Adobe Reader plus the Adobe Document Server for Reader Extension®. The standard signatures produced by PDF Sign&Seal are interoperable with the Adobe signature format, and can be verified using the freely available Adobe Reader 6.0+, therefore ensuring embedded signatures have the widest possible reach and can be verified by any recipient.

The advanced functionality offered by PDF Sign&Seal makes it ideal for any type of Government or Business use. The product is a separate application that can be very easily installed and the cost is low enough for deployment within large projects or within small and medium enterprises. The product supports all trust scheme providers that use open standards and is also designed to meet IdentrustT scheme rules. The product is also aimed at e-commerce initiatives that wish to take advantage of Bridge CA environments.

- ✓ **Online Banking System (OLBS)**

Client

Ascertia Pvt. Limited (<http://www.ascertia.com/>)

Role

Team Leader

Environment

J2EE, JSP/Servlets, Tomcat, MySQL, Windows XP/2000 Professional/2000 Server, XML, Netscape Explorer, Microsoft Internet Explorer

Online Banking System was a prototype for the presentation to well known international banks. It was giving facilities to schedule the online billing of all the utility bills, Policy installments, Loan Installments, House rents, Employee Pays and a lot more facilities for the registered users of online bank.

There was a separate admin module to configure central server from anywhere. It was targeting to integrate all the branches of the banks on a single point so that clients can access their required information from any online bank branch as well as can check themselves by accessing internet. Every user is given an ID with related PIN that he/she can use for logging in to his account information page.

✓ **File Sign&Seal** (Sign & Encrypt with simple right click)

Client Ascertia Pvt. Limited (<http://www.ascertia.com/products/signzeel/>)

Role Team Leader

Environment J2SE 1.4, JNI, IAIK JCA/JCE Provider, IAIK PKCS#11 Wrapper, IAIK CMS, IAIK TSP, Windows XP/2000 Professional/2000 Server, Red Hat Linux 7.2

File Sign&Seal is a universal application for encrypting and signing any type of file or folder. In fact it can do much more including - file compression, digital time stamping, online identity validation and inbuilt workflow capability!

The problem with digital signatures, encryption and IT security generally is the overwhelming complexity for normal everyday users. File Sign&Seal has been designed from the ground up for novices; nevertheless under the File Sign&Seal hood are the most advanced security operations imaginable - all just one click away from the user's perspective!

Using File Sign&Seal businesses can quickly protect the integrity and privacy of sensitive files exchanged over the Internet or stored locally, agree contracts & collaborate online, and perform document sign-off approvals electronically.

✓ **OCSP Client Tool**

Client Ascertia Pvt. Limited (<http://www.ascertia.com/products/ocsptool/>)

Role Team Leader

Environment J2SE 1.3, IAIK JCA/JCE Provider, Windows XP/2000 Professional/2000 Server

The OCSP Client Tool is the latest tool from Ascertia that ensures that PKI systems are operating effectively and to specification. This stand alone OCSP client application can be used during the installation, operation and maintenance of a PKI system.

The Ascertia OCSP Client Tool is fully compliant with the OCSP specifications as defined in IETF RFC2560, and interoperates with any OCSP servers meeting this standard. The tool is fully GUI based to allow easy installation and configuration.

The OCSP Client Tool is written in Java and is currently tested on Windows 32 platforms. Other platforms could be supported if required but please discuss your requirements with your Ascertia representative or reseller.

Completed OCSP Requestor producing OCSP Requests in order to find out validation status of target certificate/s using specified OCSP Server/s. It is also able to send OCSP Request using version3 extensions AIA of digital certificate. Main features of the product are:

- Play with PKCS#7 (Certificate Chain)
- Auto find OCSP Responder/s
- Parse PKCS#12 password protected digital certificate with private key
- Sign OCSP Request/s
- Parse result/s relative to each OCSP Request
- Status informatory for exploring network time consuming and performance issue
- Able to include extension/s required by client
- Ability to use proxy settings for work behind fire wall
- Secure logging in different formats (ASN1 human readable format and binary format)
- Saving trust anchor/s list for path building

✓ **PDF Signer Server**

Client Ascertia Pvt. Limited (<http://www.ascertia.com/products/serverSide-Signing/>)

Role Developer

Environment J2SE 1.3, IAIK JCA/JCE Provider, Windows XP/2000 Professional/2000 Server

For server-side signing, time-stamping and workflow of PDF documents. Supports long-term signatures, PKCS#11 HSMs, multiple signing keys, secure log of each signing, and can operate in automated mode for bulk PDF signing of corporate documents or as an online trusted server signing on behalf of end-users.

✓ **Advance Digital Signing Server**

Client Ascertia (<http://www.ascertia.com/products/serverside-signing/>)
Role Designer/Developer for Business Logic of PDF Module
Environment J2SE 1.4, JSP/Servlets, SAAJ, JAXB, Tomcat, Sun System Application Server, IAIK JCA/JCE Provider, Windows 2003 CA, Microsoft SQL Server, Windows 2000/2003 Server

ADSS is a server side solution for document signing. It is based on OASIS DSS protocol and provides the web service interface to clients. ADSS has a built-in CA integration module; clients can register/create their digital certificates on ADSS and use these certificates later for document signing. ADSS creates the native and interoperable signatures for PDF, Office and XML documents and can also compute the PKCS#7 signatures on provided document hashes. The British Library (www.bl.uk) will be using ADSS in conjunction with their product BL-Direct in near future.

✓ **OCSP Server**

Client Ascertia Pvt. Limited (<http://www.ascertia.com/products/ocsp/>)
Role Developer
Environment J2SE 1.3, IAIK JCA/JCE Provider, IAIK PKCS#11 Wrapper, HSM (AEP Sureware Keyper, Chrysalis-ITS Luna CA3, nCipher nFast), Smart Card (Datakey CIP), Microsoft SQL Server, Oracle, Windows 2000/2003 Server, Red Hat Linux 7.2, Solaris 7/8

An implementation of version 3 Online Certificate Status Protocol [OCSP] for it to be used as Validation Authority for client applications [normally banking sector] checking status of digital certificates and digital signature of different communicating parties in secured way. IAIK toolkit is used for implementation of OCSP Responder. This involves full background knowledge of

- PKI – Public Key Infrastructure
- Digital Certificate Issuing Authorities
- Registration Authorities
- Digital Certificates
- Digital Certificate Revocation Lists
- Digital Signature
- OCSP – Online Certificate Status Protocol
- LDAP – Lightweight Directory Access Protocol
- LDAP directory creation, access using Netscape Directory Server and Netscape LDAP Java library
- Hashing, Encryption, Decryption
- Standard algorithms like RSA, DSA.

✓ **SCVP Server** (Delegated path discovery & comprehensive path validation)

Client Ascertia Pvt. Limited (<http://www.ascertia.com/products/scvp/>)
Role Team Leader + Architect
Environment J2SE 1.4.2, IAIK JCA/JCE Provider, IAIK PKCS#11 Wrapper, HSM (AEP Sureware Keyper, Chrysalis-ITS Luna CA3, nCipher nFast), Smart Card (Datakey CIP), Microsoft SQL Server, Oracle, Windows 2000/2003 Server

An implementation of version 1 Simple Certificate Validation Protocol [SCVP] for it to be used as Validation Authority for client applications [normally banking sector] checking status of digital certificates and digital signature of different communicating parties in secured way. This is most advancement of OCSP Responder/Server. SCVP is based upon DPV and DPD structures.

✓ **Certification Authority** (Simple and immediate issuance of digital certificates)

Client Ascertia Pvt. Limited (<http://www.ascertia.com/products/pureca/>)
Role Team Leader
Environment J2SE 1.3, Microsoft Access 2000, Microsoft SQL Server, Oracle, My SQL, Windows 2000/2003 Server

PureCA is a powerful yet low-cost Certification Authority, specifically tailored for organizations requiring simple and immediate issuance of digital certificates.

PureCA is streamlined to get you up and running in no time at all, in fact installation and configuration takes less than 5 minutes. So you could be issuing certificates and securing your communication a lot sooner than you previous thought!

At a very low cost, PureCA will allow you to set-up an unlimited number of CAs and issue an unlimited number of certificates from a single installation (and hence a single license).

Working on Certificate Issuance Authority for issuing digital certificate/s online free as well as for paying customers. This product is for generating X509 certificate/s according to **RFC2459** modifying with **RFC3280**.

✓ **LDAP Browser**

Client Ascertia Pvt. Limited (<http://www.ascertia.com>)
Role Developer
Environment J2SE 1.3, Windows 2000/2003 Server, Red Hat Linux 7.2, Solaris 7/8

LDAP browser is a powerful tool to explore the LDAP directories. It is capable to find out different attributes including userCertificate, cACertificate and CRLs. It has functionality for logging in as power user by applying user name and password to the specified LDAP directory. Capable to login via SSL so that information can be fetched out in a secure channel.

✓ **PKCS#11 Wrapper**

Client Ascertia Pvt. Limited (<http://www.ascertia.com>)
Role Developer
Environment HSM (AEP Sureware Keyper, Chrysalis-ITS Luna CA3, nCipher nFast), Smart Card (Datakey CIP, Oberthur, Rainbow USB Tokens, Gemplus), Windows 2000/2003 Server, SafeLayer

This is a wrapper over PKCS#11 standard by using **version 6 of VC++**. It uses SafeLayer as backend to provide low level functionality for making session, authentication checks, transactions for generating new keypairs, extracting public and private information for encryption, verification and decryption, signing purposes respectively. It is capable to differentiate IMPLICIT and EXPLICIT signature information while signing/verifying.

✓ **TWL** (Tutor Without Limits)

Client SWL (www.schoolwithoutlimit.com)
Role Security Manager & Developer (Designing & Development)
Environment Apache HTTP Server 2.0.54, XML, JavaScript, PHP 5.0, MySQL, SQLyog v4.06, Linux, Windows XP, Mozilla Firefox, Internet Explorer, Macromedia Dreamweaver MX 2004

SWL is European organization with domain as free online education. It's aim is to make a unique web portal where anyone can come for study, teaching and share ideas by using all possible ways at one platform in a well managed manner.

✓ **Inventory System**

Client ShahSon's Pvt. Ltd, Lahore Pakistan
Role Senior Developer
Environment Windows 2000, Oracle 8.05, Crystal Report Writer 7.0

ShahSon's Pvt. Ltd is a leading company deals in stationary in all over the Pakistan, there are much more branches all over the Pakistan of ShahSon's Pvt. Ltd. For Defence branch I developed an inventory System which provides the employee all information according to stock in hand and in market also it is providing information about merchandisers reports. It contains 13 forms, 9 tables, and generating many daily, weekly, monthly, quarterly, half-yearly and annual reports using Crystal Report Writer.

✓ **Sales Tax System**

Client ConsiderSoft, Inc. (Product Prototype)
Role Developer
Environment Windows NT workstation, Server, 2000, MS Access

The core features of the application are Generation of input and output invoices, Module for calculating input tax through purchase inventory system, for calculating output tax through sales management system, for calculating difference of input and output tax separately of different categories to submit the monthly return i.e. receivable or net payable. Party verification reports on monthly basis as required by the sales tax department under section of sales tax act.

✓ **www.considersoft.com.pk**

Client ConsiderSoft, Inc. (<http://www.considersoft.com.pk>)
Role Web developer
Environment Internet Explorer 5.0, Netscape Explorer

www.considersoft.com.pk was a web site completely developed in flash5. That site consists of both the contents of that software house and represents the full fledged professional touch. Each part of the product that was to be presented on the client side was to be built professionally.

The main contents of this site include

- **Animation Time**
After going with 67 seconds complete animated movie in flash5 contents of ConsiderSoft web site comes appear and a welcome message attracts user with water wave like animation.
- **Contents**
There are 8 contents in this site as ConsiderSoft, About Us, Services, Links, FAQ, Projects, Advertisement Information and Contact Us.
- **Covering the Whole Screen**
On click to any content out of 8 mentioned above, it becomes magnified and cover the whole screen area and represents its related details within its boundary. All contents are in circular shapes.
- **Scenes and Layers**
In this site total numbers of scenes are 12 and total numbers of layers used are 172, no of scenes and layers are not included for movie clips, their numbers are extra.
- **Scripting**
In order to control their navigation and timing for readability and performance checking flash scripting is also used by me that is extra good feature of this site.

✓ PayRoll System

Client RK & RC Group, Lahore Pakistan
Role Developer
Environment Windows 95, Windows 98, Crystal Report Writer 7.0

RK & RC Group is expert in textile industries and is expert in improving business performance through their expertise. It is an payroll system developed for RK & RC Group. The core features of the application are Appointment Register, Salary Sheet / Form M, Leaves Policy, Desination Groups, OverTime Register and Gratuity Calculations.

Following are the main features supported by this project.

- **Appointment Register**
Appointment Register keeps the record of all appointed employees. data is entered in this register on the basis of employee employment slip under the required columns.
- **Salary Sheet / Form M**
Generally gross pay rate is offered to employees & this gross pay rate includes many allowances which vary person to person & time to time. After take into accounts all deductions, leaves at the end of each month salary sheet which is also called "form M" is prepared.
- **Leaves Policy**
As per company policy there are 6 leaves types, company offers the different leaves package to different employees.
- **Desination Groups**
According to employees duties and responsibilities and pay rate, they are categorized into three major groups called desination groups.
- **OverTime Register**
If an employee works on sunday (rest day) or other than working hours (after or before shift) he is entitled for getting an extra amount called overtime/rest day extra. Approved application for overtime is send to payroll department which contains specific information
- **Gratuity Calculations**
After processing certain responsibilities for stipulated period, employees are encouraged for gratuity amount, depends on his / her experience that he / she spent for company.
- **Reports**
The application is equipped with a bundle of reports that have been designed using Crystal Report Writer. The main reports include the deduction sheet, employee promotion, RDE Sheet, Final Settelement and so on. The user can view and print these reports daily, weekly, monthly, quarterly and annually.

Quick View Of Expertise

Tool	Knowledge	Good	Very Good	Excellent
JAVA Core				√
JAVA GUI				√
Oracle 8.0		√		
MS SQL Server 2000			√	
MS SQL 7.0		√		
VC++		√		
C++		√		
MY SQL		√		
MS Access		√		
HTML 4.0				√
Flash5				√
ASP 2.0, 3.0		√		
Visual Basic 6.0		√		
Crystal Report Writer 9.0, 7.0			√	
Java Script	√			
VB Script	√			
InstallShield Professional 2000 (6.2)				√
InstallShield DevStudio 9				√

Documentation Experience

- Documented 350 page long Basic understanding document for **OCSP Server** workflow
- Documented **CA** workflow
- Documented **OCSP Client** workflow
- Documented **SCVP Server** workflow according to DPV Requirements
- Documented **EFund** certification requirement
- Documented **HSM** pooling system
- Documented database pooling system

Interests

- Interests include new software technology trends, community service, sports and bicycling
- Proactively sought out new tasks to make best use of available time
- Party management to make the environment dulcet
- Swimming, Basketball and Badminton