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Sun Certified Programmer for Java Platform
Experienced Applications Developer for .NET/Windows platform

SUMMARY

- 5+ years of extensive and diversified, hands-on technology experience in the **banking/financial services industry, engineering/technical services** and recently in **Retail**, designing, implementing and supporting business applications for both the **.NET/Windows platform** and the **Java platform**.
- 3 years experience in implementing large-scale e-Payment and financial systems, using **Visual Studio.NET 200x, C#, ASP.NET, ADO.NET and Microsoft SQL Server**.
- 2 years experience in designing and developing multi-tier, component-based **Java Web and Swing-based applications** using **JSP, Servlet, Apache Tomcat, Javascript, XHTML/HTML, CSS, JFC/Swing/AWT, JDBC and various RDBMSs** at the back-end.
- 2 years experience in developing **client/server and Web applications** in the **Win32 environment** using **Visual Basic 6, classic ASP, COM, DHTML, JScript, ADO, ODBC, SQL Server 6.5/7, MS Access and Crystal Report**.
- 2 years experience in managing and administering systems for a large-scale, nationwide card payment product; customized and deployed Cardbase Technologies' MASCOT/chipPurse card solution.
- Strong skills in **Object-oriented Analysis, Design & Programming** and performing **data modeling** using the **UML, Rational Rose 2000e and Enterprise Architect 6.x**.
- Good experience across the full **Software Development Life-Cycle** with a good knowledge of the **Rational Unified Process** and other **Agile software development techniques**.
- Strong skills in **software testing** including writing **test plans**, setting-up test environments, building and maintaining test harnesses, performing **Blackbox** and **Whitebox** testing, defining and coding test-cases for **Unit testing**; have worked with both **JUnit** and **NUnit** testing frameworks.
- Strong knowledge and hands-on experience in applying various **Software Design patterns**.
- Strong skills in creating complex database queries, stored procedures, views, triggers on **MS SQL Server 200x/7/6.5** and **Oracle 10g/9i/8i/7.3**.
- Academic experience in implementing **Web Services** with good knowledge of **SOAP, WSDL and UDDI**. Designed and developed **.NET WinForms client** application for the Google search web service using freely-available Google web service API, Visual Studio.NET 2003 and C#.
- Graduate project experience in designing and developing a wireless banking application using **J2ME/Java Servlet** technology and **ASP.NET Mobile Web Forms** (as part of Masters Degree thesis, aimed at comparing alternative technologies for developing data-driven, enterprise wireless applications).

EMPLOYMENT HISTORY

- April 2006 – March 2007,
SAP Retail, Inc. , <http://www.sapkhimetrics.com>
4343 N Scottsdale Rd, Suite 345, Scottsdale, AZ 85251, USA

Position: Developer III

Role: I designed and developed front-end components for the Price and Promotion Optimization solutions for Retail industry clients, using Java Swing.

Responsibilities:

- Reviewing and implementing application feature Change-Requests.
- Designing, coding and testing User Interface components using Java AWT/Swing.
- Writing and maintaining technical documentation of application components using UML and Enterprise Architect 6.x.
- Liaising with the Quality Assurance team in facilitating product testing.

Technical Environment:

Eclipse SDK 3.x, CVS, Bugzilla, Apache Tomcat, Oracle 10g/9i, PL/SQL Developer, Java Swing, JMS, XML

- July 2005 – March 2006,

URS Corporation, <http://www.urscorp.com>

7720 N 16th Street, Suite 100, Phoenix, AZ 85020, USA

Position: Project Programmer

Role: I handled application design and development within the Environmental Engineering and Geosciences group, gathering and analyzing requirements and building applications on both the .NET and Java Platforms, for major US federal and state government clients.

Project 1: Environmental Compliance Management System (ECMS); an ASP.NET web application for a large United States Air Force Base

Technical Environment:

- **.NET Framework 1.1, Visual Studio.NET 2003, C# 1.1, ASP.NET 1.1, ADO.NET, SQL Server 2000, IIS 5.1, DHTML, XML/XSLT, CSS, JavaScript**

Responsibilities:

- As the original sole developer on the project, I took the complete application feature specifications from concept through technical design and implementation.
- Handled requirements gathering and performed a full Object-oriented analysis and design.
- Designed the data model and implemented all database objects (including DB tables and stored procedures) on SQL Server 2000.
- Coded each functional requirement end-to-end (i.e. from UI design to design and coding of the Application logic and Data access layer) using Visual Studio.NET 2003 and C#1.1.
- Implemented a component-based, layered architectural design, encapsulating the business logic layer in an extensible/reusable .NET class library.
- Managed the full life-cycle development process, as new team members joined the project, using an Iterative approach.

Project 2: National Environmental Information Exchange Network Node for SRPMIC and the Navajo Nation; a JSP-based Java Web Services client application that consumes services on the US EPA's Central Data Exchange.

Technical Environment:

- **J2EE, JSP 2.0, Servlet 2.4, JSTL 1.1, Apache Axis 2.1, Eclipse 3.1.0 + Web Tools Platform 0.7, Tomcat 5.0.28, jTDS JDBC Driver for SQL Server 2000, XHTML, XML, JAXB, DHTML, CSS, JavaScript, SOAP, WSDL**

Responsibilities:

- Built a JSP-based Java web application using Eclipse 3.1.0 + WTP and applying MVC (Model II) architecture.
- Designed and implemented UI components for JSP pages, applying JSTL and creating a set of JSP custom tags.
- Handled integration of UI components in presentation layer with application logic layer.
- Wrote technical documentation and User manuals.
- Managed communication process within the team, arranging meetings and conference call sessions.

- May 1999 – Sept 2001,

Diamond Bank Ltd, <http://www.diamondbank.com>

Plot 1261, Adeola Hopewell Street, Victoria Island, Lagos, Nigeria

Position: Head, eBusiness Systems Development and Support Unit

Role: I led a technical team of five, with primary responsibility for managing the bank's card payment products, which involved developing and providing first-level support for the applications and systems running the products.

Project 1: ValuCard; a multi-issuer/multi-acquirer nationwide card payment product implemented on Cardbase Technologies' MASCOT platform and .NET. Included development of Web-based card application processing module using ASP.NET, SQL Server 2000 and a WinForms client application for managing cardholder data and generating business reports.

Technical Environment:

- **.NET Framework 1.0, Visual Studio.NET 2002, C# 1.0, ASP.NET, ADO.NET, SQL Server 2000, IIS 5, DHTML, XML/XSLT, CSS, JavaScript**

Responsibilities:

- Designed and implemented cardholder database on SQL Server 2000.
- Implemented the Card Manager .NET WinForms client application using C# 1.0.
- Wrote product documentation and User Manuals.
- Organized and facilitated project team meetings.

Project 2: DiamondConnect; a secure Web application for providing personal banking services online to registered customers. Featured a layered architecture design with presentation layer implemented as ASP pages while business logic reside in COM components which communicate with the database through ADO and ODBC.

Technical Environment:

- **Visual Studio 6, ASP3.0, ADO, COM, HTML, XML/XLST, CSS, JScript, SQL Server 7, Windows 2000 Server, IIS**

Responsibilities:

- Designed and implemented COM objects using Visual Studio 6.
- Coded ASP pages using Visual Interdev 6, DHTML, CSS and JScript.
- Drew-up test-plan and handled System testing.
- Wrote product documentation and User Manuals.
- Organized and facilitated project team meetings.

Project 3: ShareRegistrar; a multi-tiered, Java Web application for handling share subscription processing for the IPO of a mid-sized bank and for managing the resulting shareholder data. Implemented using JSPs, HTML, CSS and Javascript on the presentation layer, Servlets as controllers, and including JavaBean components and an Oracle 7.3 database at the backend.

Technical Environment:

- **J2EE (JSP, Servlet, JDBC), Apache Tomcat 4.1, JFC/Swing/AWT, Oracle 7.3, UML, Rational Rose, HTML, CSS, JavaScript, Windows NT4 Server**

Responsibilities:

- Performed requirements gathering and analysis.
- Handled Object-oriented design and programming of share subscription subsystem.
- Carried out data modeling and class design using UML and Rational Rose.
- Designed and implemented User Interface using JSPs, HTML, CSS and Javascript
- Coded Servlets and JavaBean components.
- Implemented data access layer using JDBC and applying the DAO design pattern.
- Handled automated bulk data transfer of existing data from an old Watcom SQL database and multiple Microsoft Excel files into a new Oracle 7.3 database.

- August 1997 – April 1999,

CompuData International Limited

20, Plot 86, Lanre Awolokun Rd, Phase II, Gbagada, Lagos, Nigeria

Position: Trainee Programmer/Technical Support

Project 1: Human Resource Management System

Technical Environment:

- **Visual Basic 5.0, COM, MFC, Visual C++ 5, Windows NT4 Server, ODBC, DAO, Watcom (now Sybase) SQL 4 Server, ISQL, Crystal Report Writer**

Responsibilities:

- Designed and implemented GUI using Visual Basic 5.
- Coded application logic by making calls to functions in COM DLLs.
- Designed and integrated business reports using Crystal Reports Writer.
- Handled daily integration testing and logging of bugs.
- Maintained bug database and provided weekly status summary on open bugs.
- Conducted walk-through sessions with developers to reproduce bugs discovered for fixing.
- Handled product installation and training of users at customers' sites.

EDUCATION

M.S in Computer Science, Maharishi University of Management,
1000 North 4th Street, Fairfield, IA 52557, USA

Currently enrolled
(now on CPT)

Masters of Science (M.Sc.) in Computing & Information Technology,
University of Luton, Park Square, Luton LU1 3JU, Bedfordshire, England

July 2003

Bachelor of Science (B.Sc.) in Mathematics & Statistics,
University of Lagos, Nigeria.

Feb 1997

PROFESSIONAL CERTIFICATION

- Sun Certified Programmer for Java 2 Platform version 1.4

PROFESSIONAL MEMBERSHIP

- Associate Member, Institution of Analysts & Programmers (AMIAP),
London, United Kingdom, since June 2003

Strongest Skills	Paid Experience
.NET Framework, C#, ASP.NET, Windows Forms, ADO.NET, IIS, XHTML, JScript, XML/XSD/XPath/XSLT, CSS, SQL Server 2000/7/6.5	3 years
Java/J2EE, JSP, Servlet, Apache Tomcat, Eclipse WTP 0.7/1.0, JFC/Swing/AWT, XHTML/HTML, CSS, DOM, Javascript, JDBC, Oracle 10g/9i/8i/7.3	2 years
Visual Basic 6, ASP 3, COM, ADO, ODBC, DHTML, JScript, Crystal Reports	2 years
Object-Oriented Analysis & Design, UML, Rational Rose, Design Patterns	2 years
Software testing – Blackbox, Whitebox, Integration, Regression, Performance, Load, and Unit testing with JUnit and NUnit testing frameworks	1 year
Database design and development with MS SQL Server 6.5/7/2000, Oracle 9i/8i/7.3, MS Access, Watcom (now Sybase) SQL	2 years
Source code control & Automated Build tools – Visual SourceSafe, CVS, Apache Ant	2 years
Web Services, SOAP, WSDL, UDDI, XML, XSD, XSLT, XPath	6 mos
Wireless application development with J2ME Wireless toolkit, MIDP, CLDC, MIDP for Palm OS, WML and ASP.NET Mobile Web Forms	6 mos (academic)
Debit/ePurse card payment systems administration – Cardbase MASCOT [®] platform, ChipPURSE [™] , EPoS terminal configuration, installation and support (brands include Ascom, Ingenico, Telesincro), card subscription processing, card personalization and merchant account management	2 years

OVERALL TECHNICAL SKILLS

Programming languages	C#, Java, VB 6/5/4, C/C++
Development environments	Visual Studio.NET 200x, Eclipse SDK 3.x + WTP, Dreamweaver MX, Visual Studio 6.0
Technologies	ASP.NET, ADO.NET, ASP 3.0, COM, DHTML, ADO/RDO/DAO, Java Servlet, JSP, JSTL, Struts, EJB, RMI, JMS, JDBC, XML, XSLT, XPath, XHTML/HTML, JavaScript, CSS, DOM, MultiThreading, Web Services (Apache Axis, SOAP, WSDL, UDDI, Google APIs, Amazon SDK), AJAX Toolkits (GWT, YUI, ASP.NET AJAX)
Databases	SQL Server 200x/7/6.5, Oracle 10g/9i/8i/7.3, MS Access, MySQL 5, Watcom (now Sybase) SQL
Operating Systems	Windows Server 2003/2000/NT4, Windows XP/9x/3.x, SuSE Linux 9 Pro, MS-DOS 7/6.22/5.0
Web/Application Server	IIS 7/6/5.x, Apache httpd, Tomcat 5.x/4.x, Oracle 9i AS, JBoss AS 4.x
Software design and development methodologies and tools	RUP, Rational Rose 2000e, EA, Agile methods, UML, Design Patterns
Testing skills	NUnit testing framework for .NET, JUnit framework for Java
Card Payment Systems administration	Cardbase MASCOT (multi-application smartcard platform), EPoS devices (Ascom Monetel & Ingenico brands), ATM installation and support (NCR, Deibold brands), operated a high-volume CIM chipCard personalizer/embosser.
Reporting tools	Crystal Reports, MS Access, MS Excel

GRADUATE PROJECTS

- Master's Degree Thesis:

Title:

Making the Mobile Internet – an assessment of alternative technologies for developing

wireless applications; University of Luton, October 2002

Featured a comparison of J2ME versus ASP.NET Mobile Web Forms technology, in development of enterprise wireless applications (project poster and report available online at http://www.geocities.com/obkalu/Obinna_Kalu_Resume.html#mscthesis).

Technical Environment:

Sun J2ME Wireless Toolkit, MIDP, CLDC, Java Servlet, JDBC and Microsoft Mobile Internet Toolkit, ASP.NET Mobile Web Forms, Visual Studio.NET 2002, ADO.NET, SQL Server 2000, WML, Pocket PC Emulator, Nokia Mobile Internet Toolkit, OpenWave WAP Developer kit.

Summary:

- Designed and implemented a prototype wireless banking application, first using J2ME technology, on the one hand and then using ASP.NET Mobile Web Forms technology with Microsoft Mobile Internet Toolkit 1.0.
 - Conducted a series of performance tests using wireless device emulators.
 - Documented and submitted a 113 page report and gave a presentation to students and faculty.
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- Software Architecture Course Project: (Feb. 2005)

Implementation of the Object-oriented Architectural design style, incorporating the Enterprise-Component design pattern within an SSL-enabled Java Web banking application, including a Java Swing-based GUI desktop module.

Technical Environment:

- **JFC/Swing/AWT, JDBC, Eclipse 3.0.1, Apache Tomcat 5.5, SSL, HTML, CSS, Javascript, Rational Rose 2000e, UML, MS Access**

Summary:

- Designed UML class diagram for the enterprise component using Rational Rose 2000e.
- Implemented the O-O architectural design style.
- Coded test-cases for Unit testing using JUnit testing framework.
- Implemented the Façade, Mediator, Composite, Factory method and Rule object design patterns in building a re-usable, extensible, coarse-grained Enterprise Component.