

# Glen A Coakley

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**Objective:** To obtain a senior web services development position in the Minneapolis area that leverages my in-depth experience of e-commerce client/server development.

## Skills/Experience:

- Summary:** In my fifteen years of experience I have gained an in-depth knowledge of many technologies, full life-cycle experience, shown an aptitude for technical details and their clear explanation and a tendency to create robust, user-friendly software. The majority of my expertise is in creating networked client/server architectures via cross-platform, pattern-based, Object Oriented software in C++ and Java.
- Methodologies:** Software Analysis; requirements definition; Architectural, Functional, Technical, Database design; Data analysis/modeling; Object Oriented Analysis (OOA)/Design (OOD), Pattern-based/Generic Programming; threading/concurrency; real-time applications; application security; RUP, Agile, pair programming; Model based development; Automated/Regression, Black and White box testing.
- Java/J2EE:** Proficiencies: Java/J2EE, JUnit, JNI; EJB/Javabeans, jBoss/Jetty (like WebSphere/WebLogic); Knowledge of: JMS, JSP, RMI
- Internet:** Expertise: Web Services, WebSphere MQ, HTML; Proficiencies: PERL, DHTML, CSS, Javascript/DOM, XML, Visual Basic (VB); Knowledge of: C#, ASP, PHP, XSL
- Languages:** Expertise: C++, C, STL, shell scripting (sh, ksh, csh, tsh); Proficiencies: Visual Basic (VB), Perl, Python, sed/awk; REXX, LEX/YACC, Pascal; Intel Assembler, Knowledge of: LDAP, Lisp, Fortran
- Databases:** Expertise: Oracle PL/SQL, Pro\*C, OCI, DB2 UDB; Proficiencies: ODBC, JDBC
- Software:** Expertise: TCP/IP, Subversion, CVS/RCS (SCM/SCCS); ACE, Bugzilla, RT; Proficiencies: Apache, Ant, log2j, UML, Rational Purify, Together (like Rational Rose), Office, Project, SUN LOM, Q Pasa!, Q Nami!, MQSeries; Knowledge of: SPSS, Stata, SAS
- Operating Systems:** Expertise: Portable Unix (focused on Solaris, Linux and BSD, some HP and AIX), Windows (consumer and professional), DOS; Proficiencies: OS/2

## Work Experience:

### *University of Minnesota, Minnesota Population Center*

[www.pop.umn.edu](http://www.pop.umn.edu)

*Senior Software Engineer*

2005–present

Developed research support software and advised and mentored team and non-team members in an agile environment.

- Maintained a C++ data conversion and imputation tool: Performed and advised about optimizations, improvements and re-architecting designs. Created a multi-platform and multi-architecture build system.
- Maintained Java web services software (Struts application): Identified and fixed performance issues resulting in a 75% reduction in application startup time.
- Created a multi-platform, XML driven, end user version management tool in Python.
- Continued a Java port of Fortran data imputation software.

### *MQSoftware, Inc. – Minneapolis, MN & Guildford, Surrey, U.K*

[www.mqsoftware.com](http://www.mqsoftware.com)

*Senior Software Engineer*

2001–Nov.2003 (3 years)

Re-architected a proprietary application security service, using Together and UML. This closed known security issues, integrate with current services, clients and security standards (LDAP), operate in an N-tiered environment, and run on various flavors of Unix and Windows as part of the MQSoftware's Enterprise Application Integration (EAI) monitoring and management applications (Q Pasa! and Q Nami!).

- Implemented this service on Solaris using Forte C++ and on Windows using Visual C++ and ACE.
- Created Java and C++ client applications to test the services' interfaces.
- Maintained and enhanced related services using C++, Java and DB2 and Oracle SQL.
- Resolved Java memory and resource issues resulting from embedded C++, Java and PERL code.
- Added support for use of the Java client in the jBoss Web Application Server (WAS)/EJB environment.
- Administered DB2 and Oracle databases, Jigsaw/WebDav and Xerces/XML services.
- Created a portable Unix/Windows application for database event rule management.
- Specified the purchase and use of Rational Purify to improve the application quality.

***CDNOW Inc./N2K Inc./Telebase Inc. – Fort Washington, PA***

*Lead/Senior Software Engineer*

*1996-2000 (4 years)*

Lead a 5 person team in the full-lifetime design, enhancement and maintenance of e-commerce server software. Trained & mentored multiple development groups on proprietary and standard languages and technologies.

- Designed a method to efficiently invoke the C++ objects from a proprietary scripting language allowing new features to be added much more quickly.
- Audited and secured application code against web-based exploits.
- Created software to add security, auditing and promote policy adherence to the source code control system.
- Resolved vendor problems while keeping source code up to current standards.

*Software Engineer*

*1993-1996 (3 years)*

As part of a team of 5, developed from the ground up the database connected, client/server software for the #1 rated Internet music e-commerce store, Music Boulevard using C++ on Solaris through its full life cycle.

Created one of the first web server-side scripting languages. This freed the engineers to work on the software infrastructure, less technical designers and writers to create the final web pages and allowed the site to be internationalized and localized.

- Rewrote the scripting parser increasing its flexibility and maintainability.
- Extended the software infrastructure allowing it to be used for other award winning web sites. This included building software to aid development and testing, load data, run reports, and monitor the servers and services.
- Initiated and created easy-to-use tools, testing platforms and procedures for the Infrastructure, Development and Quality Assurance groups.
- Prompted the creation of and participated in a committee to disseminate information to the company as a whole, which led to the company's first intranet information repository.

***E-Fax Communications, Inc./Searchcraft, Inc. – Berkeley, CA***

*Software Engineer*

*1990-1993 (3 years)*

- Extended and maintained real-time, user-driven fax-on-demand systems in object oriented C on OS/2.
- Collaborated with clients to design and develop custom applications and performed on-site installation, testing, maintenance and enhancements.
- Supervised and trained other developers.

**Professional Affiliations:**

Association for Computing Machinery, Minnesota Information Professional Society, and The Open Group

**Continuing Education:**

Currently taking Sun Java certification courses.

*“Leading People: Management Development Training”, “Successful Project Management Skills—American Management Association”, “Successful Hiring”, “Team Building & Process Improvement”*

**Education:**

West Chester University, West Chester, PA,  
Merritt College, Oakland, CA – Honors,  
Montgomery County Community College, Blue Bell, PA – Honors

**Honors and Awards:**

Who's Who in America