Christian Beedgen

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OBJECTIVE

Seeking a position that allows me to apply my skills to their fullest extent. Working in a team environment with skilled professionals building creative solutions. Extending both my coding and problem solving skills as well as my interest in software development management.

EXPERIENCE SUMMARY

Extensive experience in analysis, design, development, implementation and testing of Internet and client applications on Windows and Linux platforms. Fully acquainted with complete software development life cycle. Strong interest in object oriented analysis and design using mainly Java for server side programming.

SKILLS

Java (incl. Servlet API, JDBC, JMX, JNDI, JAAS, EJB), C++ (incl. MFC, COM, ATL), Borland Delphi, XML (Xerces, XT), XSL (Xalan, XP), WebDAV/HTTP, RDBMS (Oracle, Microsoft SQL Server, Microsoft Access), Borland JBuilder, Sun Forte for Java, TogetherSoft TogetherJ, Microsoft Visual Studio, Object Oriented Analysis and Design, Design Patterns, UML, Rational Rose, HTML Authoring and Design (Macromedia Dreamweaver, Adobe Photoshop), Website and Webserver administration, Multimedia Production (Macromedia Director, Flash), Desktop Publishing (Quark XPress, Adobe PageMaker, Adobe FrameMaker), Video Postproduction, Digital Audio and MIDI (Steinberg Cubase VST), Windows 95/98/NT/2000, Linux, Solaris

WORK HISTORY

Gigaton, Inc.

July 1999 - Present

Co-Founder, Senior Software Engineer, Team Lead

Co-founder of Gigaton, Inc., an infrastructure software company enabling distributed file management solution over IP-enabled networks. Involved in product definition and key IP development as well as in designing and implementing software solutions. Acted as a team lead and software development manager for a group of twelve developers, reporting directly to the VP of Engineering. Involved in fund raising efforts of company including presenting concept and technology to venture capitalists.

Designed a system for efficient wide-area replication of unstructured data, based on a patent developed in conjunction with a consultant from the NSA. The system uses a proprietary

architecture, different replication strategies and system metrics to determine dynamic distribution of replicas among nodes within a managed network in order to achieve high-availability and low latency for client access. Data is accessed through a WebDAV compliant front-end server.

Designed a highly scalable, clusterable WebDAV server as a foundation for the aforementioned replication system. Led a team of developers through the implementation. The server is based on Java Servlets for easy portability across J2EE implementations and is manageable through JMX, SMTP support planned for the next release. Authentication is implemented through JAAS, a Java abstraction for authentication.

Designed and implemented a Java server framework and servlet engine. Focused on building a slim and efficient implementation for handling high connection counts. Researched and applied techniques for improving performance of Java applications, achieving near-native performance.

Designed and implemented a system for XML transformations using XSLT in Java. The system is used to provide interface customization for web pages with dynamically generated content. Realized several examples that showed how web pages can be made "skinable" using the system and a set of custom XSLT files. Designed the underlying flexible engine for chaining together XML transformation blocks via SAX, an event based XML API.

Researched and implemented several prototypes for file differencing algorithms (delta compression). Implemented an optimized linear-time, constant space algorithm for file differencing in C++ for Windows. This piece is used in a Windows client software that allows accessing the storage backend providing optimized up- and download speeds in update scenarios. Participated in the development of a patent covering file differencing approaches, suggesting efficiency improvements in a versioning scenario.

Conceived and implemented the prototype of a Windows client software that integrates the storage backend in Windows Explorer views. Users can then access files stored in their account using the typical Windows Explorer interface incl. Drag-and-Drop. The client is implemented as a Shell Extension using Visual C++, COM and ATL. The prototype was later developed into a release version that was available for download from the Gigaton website.

Cleverlearn.com

March 1999 - July 1999

Lead Application Developer

First employee of Cleverlearn.com, a company developing Internet-based learning products. Involved in the initial product definition. Led development of client applications for the Windows platform.

Designed and implemented a background application for the Windows platform in Visual C++ enabling on-the-fly translation of text rendered on a computer screen. The application is invoked via a customizable mouse button/key combination using a Windows mouse hook routine. The word displayed at the current mouse position is identified using a combination of Windows API calls and other "tricks" including sending fake messages to windows. This works on all standard Windows controls, Internet Explorer, Word and other Office applications. The translation of the identified word is then displayed in a pop-up window.

Designed and implemented a client application in Visual C++ that acts as a dictionary and word list browser to facilitate vocabulary learning by the user.

Using Visual C++, designed and implemented an MFC based class library for displaying widgets in custom shapes and with custom visual appearance, allowing for "skinning" of a user interface. This library was used to implement the appearance of the aforementioned client applications.

The applications developed were and are core to the Cleverlearn.com business, have been acknowledged by the press and are available for download on the Cleverlearn.com website.

Amazon.com

September 1998 – February 1999

Internet Developer

Part of a small team that developed several prototypes for an e-greeting card site that eventually became cards.amazon.com. Designed and developed critical parts of the backend server application and the visual appearance of the prototype site. Conducted evaluation of various implementation strategies, including Java Servlets vs. ASP, Oracle vs. SQL Server, Java Servlet performance.

Designed and implemented a website for electronic greeting cards and a customizable reminder service. Based on Java servlets in a Linux environment, the system accessed an Oracle 8 database running on Linux as well. Database access from the Java servlets was achieved using JDBC. Developed relational database scheme.

Designed and implemented a mailer daemon software that read upcoming reminders from a database and sent reminder emails to customers. The daemon was implemented as a Windows NT service and written in Borland Delphi. This site was in production for several months.

Designed and implemented the reminder service part of an earlier prototype on the Windows platform using ASP scripts running on the Microsoft IIS web server and accessing a Microsoft SQL Server database. This site was in production for several months.

CCDM

January 1997 – March 2000

Web designer and Internet application developer

The CCDM (Competence Center Digital Media) is a model company at the Brandenburg University of Applied Sciences (Germany) that allows students to work for and lead projects in a semi-commercial environment in order to obtain practical experience.

Using CGI/Perl, designed and developed an entry form for regional multimedia companies to support company information and profiles for publishing in a CD-ROM.

Designed and developed the server portion of CultureSurf, a database application consolidating data describing cultural events in Brandenburg from regional governmental offices using a Microsoft Access database application. The server part allows for searching the listings of cultural events by date as well as an Internet-style full-text search. The consolidated data from the Access databases is kept in a Microsoft SQL Server database and accessed by an ASP front-end application accessible through the Web (ccdm-server.fh-brandenburg.de).

Participated in the concept and design phases of the Internet presentation of the Ministerium fuer Wissenschaft, Forschung und Kultur in Brandenburg (www.brandenburg.de/land/mwfk/).

Designed the CCDM website (www.fh-brandenburg.de/~ccdm) and, using CGI/Perl, implemented guest book functionality, a message board and a full text search across the site content.

Atlas Data

March 1997 – August, 1998

Freelance consultant and IT trainer

On behalf of Atlas Data (Berlin, Germany), conducted various training courses for Microsoft operating system including NT, the Microsoft Office suite and Internet technology for Siemens AG in Berlin, Hamburg, Bremen, Braunschweig, Hannover (Germany). As a trainer, worked on and taught fundamental techniques for using Microsoft products and the Internet in a corporate environment, based on material provided by Siemens as well as examples compiled from various sources.

Classic ArtVertising

May 1997 – June 1998,

Freelance consultant, website and print designer, programmer

Designed intranet site that was used internally by the IT department of the Bankgesellschaft Berlin (Germany), to provide news and discussion of enterprise and high-availability technology to employees.

Participated, in conjunction with IBM, in the design and implementation of a massive multimedia presentation based on Microsoft PowerPoint for internal use by the Bankgesellschaft Berlin.

Designed a print catalog for internal use by the IT department of the Bankgesellschaft Berlin.

For the Bankgesellschaft Berlin, developed a millennium screen saver in Borland Delphi incorporating the CI of the company and an animated counter to count down to the new millennium.

EDUCATION

October 1996 – 2000, Brandenburg University of Applied Sciences, Germany

BS in Computer Science.

VISA

H1B holder.