Anna Sokol

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Objective: To obtain a position as a Software Engineer to utilize my exceptional technical skills.

Education:

Master of Science in *Computer Science*
Stony Brook University, Stony Brook, NY - May 2003
 - GPA: 3.58

Bachelors of Science Degree in *Computer Science*
Stony Brook University, Stony Brook, NY - May 2002
 - Major GPA 3.5

Work experience:

April 2006 - Present
Software Engineer, *Bal4 Technologies,* Bethpage, NY
 - Designing modifications, addons, and plugins to the fourDScape software.
 - Creating a tree like preferences interface, which can be modified using an external XML.
 - Modifying wxTreeMultiCtrl to include icons in the nodes.
 - Developing a faster way to store gigabytes of data in memory.
 - Implemented using Microsoft Visual C++, wxWidgets, SQLite.

April 2005 - Present
Website Designer*, School of Health Technology and Management,* Stony Brook University
 - Redesigned all the School of Health Technology & Management departmental websites listed below and am currently redesigning the other departmental websites within this school.
 - Made the website easy to navigate and visually appealing.
 - The goal of the websites is to attract undergraduates interested in these programs to the Stony Brook University and the School of Health Technology & Management.
 - Implement using Dreamweaver, Fireworks, JavaScript, CSS, and XHTML.
 - Available for review:
   (Athletic Training Program) - http://www.hsc.stonybrook.edu/shtm/programs/at/
   (Clinical Laboratory Sciences) - http://www.hsc.stonybrook.edu/shtm/programs/cls/
   (Physician Assistant Program) - http://www.hsc.stonybrook.edu/shtm/programs/pa/
   (Health Care Policy and Management) - http://www.hsc.stonybrook.edu/shtm/programs/hcpm/

November 2005 - April 2006
Programming Consultant, *Rapport-Weiss Communications, LLC*, Bethpage, NY
 - Developed the ListNET LISA Award winning EZ Proposal Writer software, which makes it quick and easy to create consistent proposals.
 - Uses a tree like interface to create the proposals and then prints out a PDF of a proposal.
 - Created both a network version and a stand alone version.
 - Implemented using Microsoft Visual C++, wxWidgets, SQLite, and VBScript.

June 2003 - Jan 2004, Nov 2004 - Jan 2005
Programming Consultant, *Applied Biomathematics*, Setauket, NY
 - Created software for Pfizer that graphically displayed risk analysis statistics for the research Pfizer Pharmaceutical Company did on certain drugs.
 - Produced an implementation of Pfizer risk imaging software algorithms and a graphical display.
 - Programmed in Borland Delphi, Pascal, and OpenGL.

Software Developement:

June 2003 – May 2003

Artistic (non-photorealistic) 3D object Rendering in Watercolor
- Used Perlin Noise to simulate **br**ush strokes of volume data and applied the noise back to the volume data.
- Implemented for Windows in Microsoft Visual C++, OpenGL, FLTK
- Implemented for MacOS X in XCode Cocoa and OpenGL.

Jan 2003 – May 2003

Modeling Hair with NURBS and Simulating Hair Motion with Mass-Springs
- Simulated different types of hair from very curvy to straight, from very short to very long, and from very dense to balding.
- Simulated different affects forces have on hair from wind, gravity, and damping, as well as, user-specified forces directly impacted on the hair.
- Implemented in Microsoft Visual C++, OpenGL, FLTK.

Projects:

June 2002 - May 2003

The Peace Post Project, *Master's Project*, Stony Brook University
- Received the *Dialogues Across Differences Presidential Mini-Grant*.
- Developed a multilingual website that promotes peace and understanding between children of warring nations and religions.
- Implemented in Macromedia Director, Lingo, MYSQL, SQL, PHP, and HTML.
- Demonstrated my ability to bring various groups of people to work together.
- Available for review: http://www.celt.sunysb.edu/peacepost

Oct 2002 - Jan 2003

The Virtual Building Project, Stony Brook University
- Worked as part of a team.
- Programmed High Precision Image Mosaicing on a sub-pixel level.
- Implemented in C++ on Linux.

Technical Skills:

Programming Languages: SQL, C++, C, Java, Perl, Pascal, PHP, MIPS, IJVM, MATLAB, Mel, JavaScript, ActionScript, Lingo, Modula-3, ASP, VBA, VBScript, AppleScript

Design: OpenGL, FLTK, wxWidgets, GLUI, GLUT, Latex, XML, HTML, XHTML, CSS, Unicode

Operating Systems:
Window 95, 98, NT, 2000, XP, and ME, Mac OS 9 and OS X, Linux, Unix, DOS, Solaris

Software: Microsoft Visual C++ and Visual Basic, Borland Delphi, IBM VisualAge for Java, JBuilder, Maya, Infini-D 4.5, XEmacs, XWindows, SPIM, Macromedia Director, Flash, Fireworks, and Dreamweaver, FileMaker, Adobe PhotoShop, Acrobat Reader, Illustrator, and Premiere, Microsoft Excel, Word, and Outlook, Netscape, Quickbooks, MATLAB

Database: SQLite, Sybase, DB2, MySQL, XQuery, Quip, Microsoft Access, ODBC, JDBC

Hardware: Macintosh PowerPC, Dell PCs, IBM PCs, Sony PCs

Network: Ethernet, TCP/IP, LAN

Activities/Achievements:

Deans List 3-semesters
Society of Women Engineers (Website Administrator and Secretary, 2001)
IEEE

Foreign Languages: Fluent in Russian and basic knowledge of Spanish

References: Available upon request