

## **Senior Level Programmer / Project Manager**

### **Summary of Qualifications**

- E-commerce Website Developer and Search Engine Optimization
- Multi-platform Programmer and System Administration
- Administrator of Large and Small Networks
- 3D and Web Application Developer
- Information Security and Disaster Recovery

### **Key Skills**

- Highly organized, independent and dependable
- Team Player
- Problem solver
- Ability to learn quickly
- Project development and management
- Strong oral and written communications skills
- Technical Writer
- Trainer, tele-trainer, E-Learning
- Systems Analyst
- Continually works to keep knowledge current
- System Administration: Linux, MacOS X, Solaris, Windows 2000, XP, 2003 Server
- Software Engineer: Visual Basic, C, C++, C#, Fortran, Java, Pascal
- Formal methods programming for high reliability software
- Scripting: PHP, Perl, JavaScript, ActionScript, ASP, shell scripting
- Remote administration
- Experienced with Open Source applications and servers including: Apache, MySQL GIMP, Sendmail, PostgreSQL, PHP, Perl, Tomcat, SAMBA
- Information Security
- Geographic Information Systems
- Web development (HTML, DHTML, XHTML, X3D, VRML, XML, CSS, Flash, SQL)
- Search Engine Optimization
- E-commerce setup and maintenance
- Real-time System Administration
- Networking protocols TCP/IP, DNS, SMTP, FTP, SSH, SSL
- Human-Machine Interfaces
- 3D Modeling, Simulation and Animation (primarily using LightWave)
- Video Editing, Video Overlay, Digital Video Editing
- Computer Graphics Design
- Commercial Graphic Artist
- Freelance Photographer
- Freelance Artist (2D and 3D)

### **Experience**

Thorlo Inc., Statesville, NC.

(2006 to Present)

Website Editor/Web Team Coordinator

- Created a new E-commerce system for company site and optimized the shopping cart and promo code system.

- Optimized website code for search engine spiders.
- Worked with marketing team and directed several major initiatives to increase sales and improve site relevance for search engine optimization.
- Created innovative website widgets for product spotlighting and data retrieval.
- Fielded consumer questions and complaints.
- Created consumer surveys and analyzed data for improvements to increase consumer satisfaction.
- Created automated reports using multiple database sources.
- Directed several video, audio and animation projects for web deployment.

Consultant, Mocksville, NC

(2006 to Present)

Sole Proprietorship

- Maintain web sites for clients.
- Designed web pages and web sites for clients.
- Developed forms and databases for client web sites.
- Created implemented security policies for client web sites.
- Created content management solutions for client web sites.

Loyola Enterprises Inc., Virginia Beach, VA.

(2000 to 2006)

3D Modeling and Simulations Programmer

- Created a new Flash component set for connecting and dynamically serving maps on the Internet.
- Created web applications using a combination of Flash, PHP, JavaScript, HTML, XHTML, X3D, XML, SQL, C and Java.
- Used a combination of Flash and PHP to gather and display data from various remote servers for decision makers in the Department for Homeland Security during national crisis events.
- Used PHP to link and display data from multiple remote personnel databases using SQL queries for the Department of the Interior.
- Used PHP to calculate and display using XHTML, noise effects models from legacy DOS applications.
- Used PHP to parse scanned Military Training Route information and dynamically create VRML models in 3D for visualization.
- Used Java to run legacy “Military Standard” DOS applications and deliver results to users on the web.
- Used Java, JavaScript, HTML, Flash and ActionScript to develop map viewers to connect to ArcIMS, Oracle Databases and Microsoft SQL Server.
- Used ASP, PHP and DHTML to create web portals.
- Created X3D (VRML) applications using Java, JavaScript and HTML as control code for the 3D interface.
- Created stand alone applications and plugins to industry standard applications using Visual C and Visual Basic.
- Developed training materials for new software and systems to be delivered to customers.
- Created digital movies of terrain fly-throughs suitable for web broadcasting and CD production.
- Professional video editing and audio mixing for presentations, training and internal information videos.
- Created 3D models and simulations for various military branches.
- Performed System Administration for Windows desktops and servers as well as Linux servers for our branch office including backups, installations, desktop and server maintenance.
- Worked with classified and top secret data.
- Managed and lead projects from conception to delivery, accounting for time, materials and staffing.
- Created Statements of Work and Request for Proposals.

Consultant, Yorktown, VA

(1994 to 2006)

Sole proprietorship

- Installed, maintained and supported hardware and software for Macintosh and PC's.
- Recommended new hardware and software for workstations and networking.
- Created custom desktop computers and small office networks.

- Trained clients individually and in small groups in the use of new systems and software.
- Developed client websites and applications using a variety of languages and resources based on customer needs.

Hypermedia Communications, Inc., San Mateo, CA. (1999 to 2001)

Freelance Technical Writer

- Wrote articles and features about Linux for NewMedia.com aimed for non-technical readers.

Morris Communications & Computer Services, Inc., Yorktown, VA. (1997 to 2003)

Co-Owner

- Created a business to host web pages for web professionals.
- Designed web documents, php and perl scripts and administered accounts for web server.
- Negotiated contracts with customers and suppliers.
- Designed, built and installed Linux and BSD based web servers.

Atipa Corporation., Kansas City, MO. (2000)

Technical Consultant

- Maintained and created content for lindeveloper.com, part of linsight.com.
- Wrote profiles about companies and products.
- Wrote comparison articles and in-depth technical specifications as extra content and features.

Computer Sciences Corporation., Hampton, VA. (1996 to 2000)

Senior System Analyst

- Provided system administration and technical support to NASA Langley Research Center.
- Managed the Technology Research and Integration Group.
- Supported the entire center in testing, certifying and recommending applications for all users.
- Created and lead teams to study and implement solutions for backup services, information security, file services, archive services, inventory and application distribution.
- Created an in-house Macintosh Certification program to train and test Customer Support personnel.
- Created standards in computing environment and trained appropriate support personnel.
- Responsible for maintaining site licensed software, beta testing new versions, informing users of upgrades and insuring the overall integrity of the computing environment.
- Lead System Administrator in the areas of information security, license serving and configuration.
- Negotiated agency-wide license for virus protection software.
- Developed and maintained secure web pages to protect proprietary information of industry partners.
- Created and maintained a cross platform solution for secure information transfer across the web.
- Created and implemented a help desk prototype for providing system based services to the Macintosh and Windows communities at NASA Langley.
- Designed and implemented server models for software distribution, application metering and backup.
- Created AppleScript, Perl, and Frontier scripts for automated tasks on Macintosh and AIX Servers.

Lockheed Martin, E&MSC, Inc., Hampton, VA. (1988 to 1996)

Scientific Programming Associate

- Provided engineering support to the NASA Langley Research Center, Information Systems Division.
- Developed software and testing criteria for hardware susceptibility to High Intensity Radiated Fields.
- Created test procedures for military flight control computers in susceptibility chambers.
- Developed interface software for the Laboratory Telerobotic Manipulator, a prototype of the Flight Telerobotic Servicer designed for Space Station Freedom.
- Participated in the development and demonstration of Telerobotic technology for applications to unmanned missions, hardware assembly in space, and other remotely controlled or pre-programmed operations in hostile environments.

- Created C and Forth code for low-level robotics joint controls.
- Created C code for high-level robotic control, movement pre-programming, real-time data collection, automatic camera tracking of the end effector and 3D video overlay of robotic arm for near orbit teleoperation.

## Education

- BS, Applied Physics, Christopher Newport College

## References

- Upon Request

## Skill Age

Skill	Years Used	Year Last Used
ActionScript	8	2008
Adobe Acrobat	more than ten years	2008
Adobe Photoshop	more than ten years	2008
C	more than ten years	2006
C++	more than ten years	2006
CAD	more than ten years	2006
CGI	more than ten years	2008
CSS	6	2008
CVS	7	2008
DNS	more than ten years	2008
DHCP	more than ten years	2008
DHTML	4	2008
DOS	more than ten years	2006
Data Analysis	more than ten years	2008
Dreamweaver	5	2008
E-commerce setup	1	2007
E-commerce maintenance	2	2008
Firewall	7	2008
Flash	8	2008
GIS	6	2006
Graphic Design	more than ten years	2008
HTML	more than ten years	2008
IIS	3	2006
Illustrator	8	2007
Java	7	2005
JavaScript	more than ten years	2008
Linux	more than ten years	2008
LightWave	7	2007
Microsoft Windows	more than ten years	2008
Microsoft Office	more than ten years	2008
Microsoft Project	3	2006
Microsoft Visio	6	2006

<b>Skill</b>	<b>Years Used</b>	<b>Year Last Used</b>
Macintosh	more than ten years	2008
MySQL	more than ten years	2008
Network Design	more than ten years	2007
Network Engineer	9	2006
Network Management	9	2006
Network Security	more than ten years	2008
Networking	more than ten years	2008
OOP	more than ten years	2008
OS X	5	2008
PHP	more than ten years	2008
Perl	5	2004
Project Management	7	2007
Quark	6	2003
SQL	more than ten years	2008
Java Servlets	4	2006
Search Engine Optimization	2	2008
Software Development	more than ten years	2008
Software Engineer	more than ten years	2008
Systems Administration	more than ten years	2008
Systems Analyst	more than ten years	2007
Systems Engineering	more than ten years	2006
Systems Integration	more than ten years	2007
TCP/IP	more than ten years	2007
Technical Support	more than ten years	2007
Technical Writer	more than ten years	2008
Tomcat	3	2004
UML	4	2006
UNIX	more than ten years	2008
VMWare	8	2005
VPN	5	2008
Visual Basic	more than ten years	2006
Visual C++	more than ten years	2006
Web Design	more than ten years	2008
Web Development	more than ten years	2008
Windows 2000	6	2006
Windows 2003	3	2006
Windows 95	more than ten years	2006
Windows 98	8	2006
Windows XP	6	2008
Wireless Networking	6	2008
XHTML	4	2008
XML	5	2008