

# Cathy Boland

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## SUMMARY

25 years of progressive experience in the fields of Web-based and PC-based database applications, telecommunications software, object-oriented programming, analysis and design, general systems architecture and digital hardware design.

## TECHNICAL SKILLS

<b>Languages</b>	C#.NET, VB.NET, ASP.NET, PHP, Java, Visual Basic 6.0, Visual C++, C, VB Script, Java Script, and HTML. Other older languages include Pascal, RPG II, Fortran, and 8086 Assembly
<b>Report Tools</b>	Active Reports for .NET, Crystal Reports, VB 6.0 Reports
<b>Databases</b>	Microsoft SQL Server 2000 and 2005, SQL Server 2005 Express, Microsoft Access and MySQL
<b>Operating Systems</b>	Windows XP/2000, Windows 98/95, Windows NT 4.0 Server, Unix, VRTX real-time kernel

## EXPERIENCE

### 1995 to Present

**Boland Consulting, Inc., Atlanta, GA**

#### Contractor/Consultant

Worked on a variety of projects, but primarily on Web-based and desktop-based database applications. Projects include:

#### EquineGlobe.com

Wrote a custom database driven website (<http://www.equineglobe.com>) to allow users to purchase ad space, pay for ads via PayPal, search ads, display search results and ad details. Project was written in C# using .NET 3.5 and SQL Server 2005. Custom PayPal integration using Express Checkout API and IPN interface.

#### Omni Leadship Exchange, Inc.

Wrote web application report module using Data Dynamics Active Reports 3.0 for .NET. Project was written in C#.NET.

#### Alternative Growth Streams, Inc.

Took over development on existing e-commerce Website (<http://www.easygettingmorepatients.com/>). Debugged and corrected existing database access problems, developed new functionality to handle membership signup and direct mail list purchases, spearheaded effort to redesign Website for increased user friendliness and clarity of purpose and added additional interfaces to PDG based shopping cart. Website is hosted on a dedicated Linux server and coded in PHP with a MySQL database backend.

#### Quality America, Inc.

Wrote a custom desktop VB.NET 2.0 application to generate emails and Excel spreadsheets for bi-monthly newsletter subscription fulfillment. Application interfaced with client's QuickBooks Enterprise V8.0 installation to retrieve customer subscription data. A single use application was also written to retrieve existing customer subscription data from an Access database and update the QuickBooks files with it. The new fulfillment application allowed Quality America to have all of their customer subscription information to be consolidated in one location – the QuickBooks database. A third party tool, QODBC Driver for QuickBooks, was used to perform the QuickBooks data retrieval and updates.

#### Turner Broadcasting, Inc. – Platform R&D Division

Developed a server application in C# using the ASP.NET 2.0 platform to support enhanced channel data delivered to a DVR network. The server side application consisted of a database management system and associated object oriented access libraries, a schedule processing windows service, a SOAP XML compliant web service interface to the DVR network and a web based schedule management interface. The schedule management interface was developed with AJAX compliant controls. The backend database was SQL Server 2005 and made extensive use of T-SQL functions.

#### Turner Broadcasting, Inc. – Platform R&D Division

Developed custom Pocket PC software to help Turner Broadcasting evaluate third party compression libraries from KT-Tech. Boland Consulting took the demo pocket pc applications supplied by KT-Tech and added features to facilitate the evaluation of the core compression libraries. These features allowed the user to control the audio/video quality, video motion control and audio/video bit rates from the pocket pc.

The applications were written in Embedded C++ V3.0 using Microsoft Embedded Visual Tools V3.0, Microsoft Windows Platform SDK for Pocket PC and Microsoft DirectX 9.0 SDK.

#### Harris, Inc.

Developed a chat application in Java that utilizes TV bandwidth for communications. Intended users are police and other emergency personnel. Also developed an application in VB.NET that saves specified web pages in IE web archive format (.mht) on a periodic basis.

**SOM Therapy and Associates, Inc.**

Developed an e-commerce Website ([www.somtherapy.com](http://www.somtherapy.com)) for a home study continuing education provider. Customers can download courses, take the course test, and print completion certificates. Graphic design done in Fireworks and Dreamweaver, web application developed in VB.NET using Access.

**SGP Printing, Inc.**

Developed costing and quote generation application based on a complex set of estimation formulas, current material cost, and quantities. Developed in VB.NET 1.1 using SQL Server 2000 using T-SQL functions.

**Perimeter Church**

Developed a web/kiosk database driven application (<http://www.teamcenter.com/cp/>) which allows users to identify serving, fellowship or growth opportunities at the church. Developed with ASP.Net 1.1 and SQL Server 2000.

**Cardinal Health, Inc.**

Developed a client-server program that analyzes the results of a Myocardial Perfusion study and generates the physician's findings report. Developed in VB 6.0 using SQL Server 2000.

**Sperduto & Associates, Inc.**

Developed a client-server program which analyzes the results from attitude surveys and produces custom color reports and graphs for presentation to clients. Also developed a web front-end for controlling the surveys. Developed in VB 6.0 and ASP.NET 2.0 using MS access. Also developed an online Exit Survey and report tool in ASP.NET 2.0 for use by Sperduto clients to track reasons employees leave their company.

**Georgia Tech Research Institute**

*Developer* on an application to interpret files containing military test data and replay the results in real-time on screen. Application was written in Visual C++ and utilized multi-threaded programming techniques.

**Debit Design Technologies**

Developed DLLs to interface to a magnetic strip card reader. Wrote a DLL to provide low-level read/write routines to developers and one to provide high level data transfer/validation to and from the magnetic card. Both DLLs were written in Visual C++ and operated under 32 bit, 16 bit, and DOS (as a .LIB file) platforms.

**May and Speh**

*Developer* on a Visual C++ application that allows lending institutions to create their own credit scoring/risk evaluation models for credit card underwriting. Wrote the objects that scored individual credit reports from major credit bureaus (Equifax, TRW, etc.). The application used Microsoft Foundation Classes (MFC) and Microsoft Access.

**Corp Banca**

*Project Manager/System Designer/Developer* for a web-based credit card reward system for a bank in Venezuela. The web site was implemented in VB Script, the database back end was MS SQL server, and the objects to handle database manipulations were written in VB 6.0. Web pages supported both English and Spanish.

**Georgia Office of School Readiness**

*Project Manager/System Architect* for a review system of a Summer Food program for underprivileged children. This VB 6.0 application allowed personnel in the field to enter review data for one or more sites and upload that data via modem into a SQL server database located on a server in the home office.

**Portland General Electric**

*System Architect/Designer* for a project management application for use in nuclear plant decommissioning projects to track, forecast and report costs.

**Strategic Support Systems, Inc.**

*Developer* on a turnkey credit card registration system. Wrote the software to handle backend data processing. Application was written in VB6 used MS SQL Server and MS Access as the database backend.

**Providian Financial**

*Developer* on an application to handle detailed warehouse tracking of credit cards being hand delivered to customers in Argentina. User interface could switch between English and Spanish. Application was written in VB6 and used MS SQL server as the database backend.

**Georgia Nonpublic Post Secondary Education Commission**

*System Designer* for a web site that allowed post secondary schools to reapply for accreditation.

**Optimum Physician Services**

Developed an application that used Optical Character Recognition (OCR) technology to pull data, such as patient name and procedure performed, from previously scanned hospital documents and place the information in a MS SQL Server database. The application identified documents that had scanning errors and allowed the operator to view the scanned document while making corrections to the recognized (OCR) information. Application was written in VB 6.0 and used a third party tool for the OCR and image viewing capabilities.

**ArgenCard**

*Developer* on a web-based credit card reward system. Wrote the credit card application scoring module. The web site was

implemented in VB Script, the database back end was MS SQL server, and the objects to handle database manipulations were written in VB 6.0. Web pages supported both English and Spanish.

**1992 to 1995**

**Self Employed, Atlanta, GA**

**Massage Therapist**

Maintained a successful home-based massage therapy practice while training and competing as a cyclist.

**1989 to 1992**

**Bell Northern Research, Atlanta, GA**

**Technical Staff Member**

Developed real-time software to maintain individual cards in a fiber-based central office to customer communication system. Software was written in PROTEL and operated on a BNR proprietary operating system. Development was done on an HP Workstation under UNIX.

**1986 to 1989**

**Electromagnetic Sciences, Atlanta, GA**

**Engineer**

Designed and developed real-time software for use in radio-controlled hand-held terminals. Software was written in C and operated under VRTX. Also designed and developed a system to handle ship-to-shore communications for AT&T. Software was written in C and operated on UNIX. Designed test hardware for microwave satellite communication systems.

**1984 to 1986**

**AT&T Bell Laboratories, Whippany, NJ**

**Senior Technical Associate**

Developed test hardware for use in SLC5 digital-loop carrier systems.

**EDUCATION**

**Southern College of Technology, Marietta, GA**

B.S. Electrical Engineering Technology, graduated 1984

**Stevens Institute of Technology, Hoboken, NJ**

Additional courses include credits toward Masters in Computer Science