

Patrick Mueller Resume

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Goals

Member of a small software development team engineering solutions to customer's problems with cutting edge technologies. Areas of interest: web-enabled applications, markup languages, scripting languages, gaming, embedded programming, tools for software developers, music / audio, all things math.

Positions

2006 - present

IBM / WebSphere

Research Triangle Park, NC

WebSphere Development - various

Senior Technical Staff Member

Coordinating IBM's involvement with the PHP community. Working on Project Zero.

2005 - 2006

IBM / Rational

Research Triangle Park, NC

Jazz: RESTy web services in Java

Senior Technical Staff Member

Developed the web services framework for IBM Rational's Jazz project.

2004 - 2005

IBM / OTI Labs

Raleigh, NC

VMs and Scripting

Senior Technical Staff Member

Worked with a small team investigating scripting languages and VMs.

Continued with the Open Source Java Guru / Apache Geronimo tracking work from before, to a lesser extent.

2004

IBM / OTI Labs

Raleigh, NC

Open Source Java Guru / Apache Geronimo tracking

Senior Technical Staff Member

Analysis work for IBM Director-ish folk who needed to keep abreast of Open Source Java technology. Lots of reading and playing with stuff.

Tracked the Apache Geronimo project quite closely, including doing a bit of development, though not contributing.

2002 - 2003

IBM / OTI Labs

Raleigh, NC

WSDD Runtimes Architect / Embedded GUI Architect

Senior Technical Staff Member

Technical lead for the embedded GUI libraries for the WebSphere Device Developer (WSDD) runtimes, including MIDP, AWT, P3ML and BMG technologies. Most of this work was done with a set of small teams in the former OTI Lab in Raleigh. Worked on operating systems/libraries including PalmOS, WinCE/PocketPC, Qt, SymbianOS, and devices such as Palm devices from various manufacturers, HP/Compaq iPAQs, Nokia Communicator. Also worked on deeply embedded systems using QNX and MontaVista Linux on development boards such as the Motorola MobileGT platform and Intel CerfCruiser.

Coordinated the releases of the runtime code in the WSDD product for versions 5.0, 5.0.1 and 5.5.

Designed/developed the audio interfaces for MIDP 2.0 for the initial releases of this functionality for the WSDD product.

Member of the J2ME JCP Review team that met weekly to discuss IBM's role in the Java Community Process for the J2ME related JSRs.

2001 - 2002 **OTI** **Raleigh, NC**
Embedded GUI Guru / Lab Director **Lab Director**

Started these new roles in late 2001. Additional responsibilities, over and above TL role, were assisting in the management of the lab's employees, as well as helping to set the technical direction for the lab. Personnel work included doing employee appraisals, counseling, mentoring, hiring, and firing.

1998 - 2002 **OTI** **Raleigh, NC**
Embedded Java **TL - Team/Tech Lead**

Lead developer of the jxeLink project, an embedded java linker. Other contributions included serial port runtime libraries, the Degas/EGFX GUI package, the BMG GUI package, bbAWT (AWT implemented on SWT), and doing project management for two releases of the VAME product. Co-wrote the initial SWT port to QNX/Photon.

1997 - 1998 **OTI** **Raleigh, NC**
Embedded Smalltalk/Java **Senior Software Developer**

Went on assignment to Object Technology International (OTI). Worked with embedded Smalltalk and then embedded Java, trying to understand the technologies and how to exploit them. Designed / developed concept car with Delco and Sun for Comdex 97 in Las Vegas.

1995 - 1997 **IBM** **Research Triangle Park, NC**
VisualAge Smalltalk / Java Features **Senior Software Developer**

Lead developer of the "Web Connection" feature of VisualAge Smalltalk. Before moving on, developed the the initial prototype of the VisualAge

Java version of this project using the nascent Servlet technology.

1993 - 1995

IBM

**Research Triangle
Park, NC**

IBM VisualAge Distributed Smalltalk

**Advisory Software
Developer**

Designed / developed the communications layer (TCP/IP) and GSS-API security API usage for the Distributed Smalltalk feature of VisualAge Smalltalk.

1992 - 1993

IBM

Cary, NC

CORBA implementation on top of DCE

**Staff Software
Developer**

Development team member of an OMG CORBA implementation on top of DCE for OS/2 and AIX.

1991 - 1992

IBM

Cary, NC

Hickory Editor

Software Developer

Designed / developed the REXX macro interface into the Hickory editor control, which was a follow-on to the OS/2 Multi-Line Edit Control. Designed / developed the text model for the follow-on to the Hickory editor.

1989 - 1991

IBM

Bethesda, MD

PLNLP Dictionary Development

Software Developer

Designed / developed dictionary building tools and dictionary access APIs for a grammar checking editor for both VM/CMS and OS/2.

1988 - 1989

IBM

Bethesda, MD

Twain Library Development

Software Developer

Designed / developed text-processing algorithms for use in the natural language processing Twain library for OS/2.

1985 - 1988

IBM

Lexington, KY

Master Product Inventory

Software Developer

Designed / developed programs for the internal IBM product MPI. Batch programming for MVS, interactive CICS programs for 3270, and REXX programming tools as development aids for VM/CMS and MS-DOS.

Education

1981 - 1985

Purdue University

West Lafayette, IN

B.S. Computer Science, Systems option

B.S. Mathematics, Computer option

Standards Work

Object Management Group, [OMG IDL Mappings to Smalltalk](#), 1995

IBM J2ME JCP Review Board, 2001-2004

Expert Group Member, [JSR 241: The Groovy Programming Language](#), 2004

Papers

Forward to Book: "OS/2 2.1 REXX Handbook: Basics, Applications, and Tips" By Hallett German, 1993

IBM Technical report, "cPost - Typesetting C Language Files With PostScript", 1994

IBM Technical report, "The Design and Implementation of REXX Object Extension - ROX", 1994

IBM Technical report, "REXX Source Level Debugging with System Exits", 1994

REXX Language Symposium, "The Design and Implementation of REXX Object Extension - ROX", 1994

OOPSLA 1995 Workshop on "Objects, Scripts and the Web": "[Smalltalk Scripts for the Web](#)"

Smalltalk Report, "[Building a Gopher from Sockets and Widgets](#)", 1995. Republished in "[Wisdom of the Gurus: A Sigs Developer's Guide](#)", ISBN: 0134998499

OOPSLA 1996 Workshop on "Toward the integration of WWW and Distributed Object Technology": "[Use of HTTP as a Transport for Distributed Object Systems](#)"

1996 Smalltalk Solutions Panel on Smalltalk and the Web: "[The Future of Application Development for the Web with Smalltalk](#)"

1997 Smalltalk Solutions Presentation: "[Interfacing Smalltalk Systems to the Web](#)"

1998 Smalltalk Solutions Presentation: "[Smalltalk in the Network Vehicle](#)"

OOPSLA 2003 Workshop on "Pervasive Computing": "[Java Community Process and Embedded Java User Interface](#)"

**Personal
Interests**

Bicycling, hiking, car camping, family fun, guitar.

Extracurricular hacking:

- [cPost](#): a Postscript typesetting program for C source code, available on sourceforge.net
- [palm2ical](#): a program to convert Palm PIM databases into iCal edible formats, available on sourceforge.net
- [various small projects](#): collected at my web site.
- [webmeister](#): community and personal web pages, including Middle Creek Elementary's web site.

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