Kevin Gene Pammett

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Visit my Home page (http://webpages.charter.net/thepammett/) for the résumé in non-Web formats.

OBJECTIVES

To pursue a senior software development position — contracting or permanent — in the north of Boston (495 ring) or Southern New Hampshire area that allows me to continue working with state-of-the-art technology, especially Web technologies. I grasp new concepts and techniques quickly and am very motivated developing new computer technology to improve productivity and quality of work or leisure.

This *hypertext* résumé is best read on the web because of the hot links to supporting information as well as direct access to my portfolio JavaScript and Java applets.

PROFESSIONAL EXPERIENCE (Summary)

An aggressive problem solver with a masters degree and 20+ years of experience with software and computer technology, I have significant expertise with:

- *languages* : years of OO software development (**Java**, C++ and Ada™); VB, C, plus a host of other languages.
- *database* : 10+ years of SQL (Microsoft 6.5, SQL 7.0 & SQL 2000 and also Oracle, PL/SQL and 8i) both in-line SQL (from Java/JDBC) and Stored Procedures; Persistent Objects and OO frameworks for interfacing with Rdb technology; SQL applications.
- *component software engineering* : recent hands-on **Developer** training and exposure to Microsoft's C# and **.Net** technologies; significant JavaBeans, EJBs and **J2EE**-based product development; OLE, COM / DCOM; and JNDI; complemented with some exposure to CORBA and webMethods **B2B** component technologies.
- *OO Design* : Used UML and Rational Rose to compile *use case*s and scenarios and to do high-level design of systems and components. Some experience with TogetherJ.
- *operating systems* : **Windows XP** (and NT/Win2000), Windows 95/98, and many versions of **Unix** including OSF/1, HP-UX, SunOS, Solaris; VAX/VMS, MS-DOS, and others.
- *Web technology* : the MVC design pattern, Java Server Pages (.jsp), **XML**, [dynamic] html, ActiveX, IIS, Javascript, ISAPI, Active Server Pages (.asp), and ActiveCGM.
- *scripting languages* : Perl, Visual Basic, *Microsoft Office* VBAs, Unix tools (*sed* & *Awk*), etc.
- Software tools, user interface design, Visual Studio, **Eclipse**, InteliJ, and UI technology (Swing).
- *career development* : An avid reader of industry trends, especially via the Oracle OTN and Microsoft msdn, constantly taking Technology Courses allow me to keep my skills up to date.
- *development paradigms* : a proven record in research, prototyping, and product development.

This experience is complemented by strong personal skills, an outgoing personality, and an aptitude for assimilating disparate technologies and making them work together effectively.

EMPLOYMENT HISTORY

Following is a summary of the companies where I have worked since obtaining my masters degree.

Interactive Constructs, Inc.	Medford, Ma.	(2003 - '04)

A consulting and *educational frameworks* startup, Interactive Constructs Inc., grabbed my attention as a Senior Software Engineer because their business is based on consulting engagements requiring **both** Java / J2EE and Microsoft Technology skills.

On two unrelated projects, I:

- (2003) Used **Microsoft technology** — Active Server Pages (**.asp**) and **SQL Server** — working on a team of 5 software engineers to provide a web-based custom Learning Management System and Training / Testing environment for *Prentice Hall*, the "world's leading educational publisher".
- (2004) Using *iConstruct*'s own **J2EE** Lycea framework, I am working in **Java** and **Xml** using our Lycea wizard engine to produce a content authoring tool called *The CAI*. This high-level web-based tool allows the creators of educational software (for an elementary-school reading curriculum) to create and 'link up' persistent (via SQL) objects which are later used by a MacroMedia Director front end. Eventually this design calls for rehosting the EJBs on **JBoss** using **MySql**, but for expediency we are initially building this Java/JDBC middleware running on WebLogic and Oracle.
- Facilitating the CAI's manipulation of complicated structures, we created an ActiveX control providing direct manipulation of **Xml** objects at a high level; you do not even see any "Tags".

Upromise, Inc.	Needham, Ma	(2002 to 2003)

I joined Upromise.com — a *Loyalty* and *Financial Services* startup — as a Senior Software Engineer to solidify my **J2EE** skills and because I wholeheartedly support the unique Upromise vision.

Working mostly in **Java** — using a wide variety of *web infrastructure* technolgies, I:

- Designed and implemented new functionality on the Upromise.com web site. This J2EE Application supports more than **3^{+} million members** with an extensive backoffice transaction processing part that collects rewards from Upromise partners for members who demonstrate product-buying *Loyalty*. I also did bug fixing and enhancements on the front end (Javascript, .jsp, and WebGenz), backoffice (Java/JDBC), middleware (WebLogic), and back end (Oracle) tiers.
- Worked on all tiers of our *call center* "CSR App" — a J2EE / WebLogic *Weblication* that supports hundreds of Customer Service Reps who answer 1-800 support calls.
- Implemented the middleware tier of a TOOLs **App Server**. Running with WebLogic and interfacing to an *Oracle 9i* back end, this server uses **Xml** and provides XML-RPC access to program metadata stored in the database but available for high-level manipulation by a variety of web-based (and *Swing*) front ends.
- Used ***Swing*** and XML-RPC to create a client for the TOOLs App Server in an effort to give non-technical users an intuitive GUI for manipulating the metadata that "drives" Upromise.com.

- Enhanced and integrated our use of Revenio (automated eMail) technology to accommodate Upromise marketing workflows.
- Helped design the metadata / API and implemented the EJB middleware needed to support "*Generic Promotions*" — the mechanism used by Upromise to let project managers create a sequence of web pages (such as this) used to capture sponsor-based promotions **without any programming** whatsoever.

Viridien Technologies	Westford, Ma.	(Feb 2000 to Oct 2001)

As a Senior Web Architect with *Viridien Technologies* (formerly http://www.viridien.com/), writing primarily in **Java**, I worked on a variety of web and *web infrastructure* projects, including:

- Using Microsoft's SQL 7.0 and Active Server Page technologies, I was the senior contributing developer on the PlanetRAD Portal project. Using Java, I wrote back-end processes for fetching articles daily from MedLine, inspired directly by my previous Java work at MyWay.
- Like PlanetRAD - only built with Site Server 3.0 eCommerce Edition technology - I led the team that created TechOnLine's *eStore* site. I did **the UI** part of this project plus work on the database and *Admin & Tools* pieces (the technology for managing what products the store offers).
- Working closely with consultants at *DIGITAS*, I was one of the senior developers who used ATG Dynamo (a Java-based web technology) to create the Woolworths and SuperDrug web sites (for Kingfischer, a UK conglomerate).
- Helped create the 3rd-generation *Viridien Technologies* web site itself ("http://www.viridien.com/", but no longer on-line). One of my own initiatives was the **Xml**-based generation of the *Leadership* pages.
- I was a key player in Viridien's largest-ever project which re-architected and rebuilt CVS.com (originally a Microsoft / .asp site) using EJB technology (**J2EE** with *iPlanet*). I personally worked on all layers: Architecture (MVC), User Interface (**.jsp** & JBs for the UI), middle tier (EJBs & JDBC), backend tools, and the database layer itself (Oracle 8i).
- Continued my previous at-home Java work to broaden my experience with Java and **Xml** technologies. See my personal Java *Portfolio* page for details.

In all of these projects I did hands-on technical work as well as requirements analysis, design, project management, and I had frequent direct interaction with clients.

MyWay.com	Andover, Ma.	(April 1998 to Jan 2000)

Writing mostly **in Java** as a Senior Software Engineer with MyWay.com (formerly *Planet Direct*), I:

- Worked on a team to re-architect Planet Direct's web portal based on custom Java components and using Microsoft's Site Server 3.0 technology. Designed and implemented a Java interface to SiteServer's "membership directory" (using LDAP and JNDI).
- Designed and wrote JavaBeans for the *personalization* part of the portal, wrapping them as COM objects using the ActiveX Bridge so they can be invoked from the .asp layer of *Planet Direct*'s (now defunct) web portal.

- Used the above components to create a Microsoft SQL 6.5 data migration tool which served as the initial benchmark that led to us **discarding** SiteServer (and SQL) and moving to Oracle.
- Wrote several Java and C++ "feeds" - standalone programs that *harvest* 3rd-party content from our partner [web] sites, canonicalizing the content, and storing it in relational database tables. This *automated content* populated MyWay's web portal - host to well over 2 million members with multimedia (pictures, audio, video) as well as textual (Articles, News stories, and graphics) content - just as it still does today with MyWay's progeny.
- Used in-line SQL (from Java) initially but then we reworked all feeds to use Stored Procedures (using Oracle's PL/SQL) in order to regularize and homogenize our feeds' infrastructure.
- Wrote XML specifications so that our partners - and therefore MyWay, too - could use XML technology for automated content exchange.
- Ported numerous feeds to webMethods **B2B** technology as part of an effort to *scale up*.

Since MyWay.com shares facilities with its parent company, CMGi, Inc., and with several 'sister' startups, I have a first-hand exposure to the technologies used and produced by many of CMGi's web companies.

Sapient Corp.	Cambridge, Ma.	(Sept 1997 to April 1998)

As a Lead Developer with Sapient Corp., a fast-growing business software consulting company, I:

- Used Rational Rose™ and Visio™ for OO design and process flows, doing the follow-on implementation of large-scale business software using Visual Basic, Visual C++ and COM. In this medium-sized team environment we used Rogue Wave's SourcePro™ DB (formerly "DBTools.h++") for SQL database transparency.
- Took part in Sapient's intensive, client-centered, workshop process (formerly "Sapient's QUADD™ workshop") where we host clients to gather requirements for business solutions, specifying the design such that the software can be delivered on a fixed-time fixed-price basis.
- Did three-tier client/server development using dynamic html in a Web browser on the client side, using Corba to communicate with the business objects (in C++) which run on HP-UX accessing an ORACLE database.
- Continued working on my own to gain experience with Java and other web technologies. See my sample Java applets page for a growing list of demos as I work towards Java Certification.

Intergraph Corp.	Huntsville, AL.	(1990 to 1997)

As a Software Scientist with Intergraph Corp., a Unix workstation and Windows PC manufacturer, I:

- (1997) Did Web prototyping using Java, ActiveX, and IIS (including ISAPI extensions) to develop a framework for WorkShare™ on the Web, focusing on Microsoft's *"Active Platform"* technologies. If you are reading this on the Web, see my sample *Javascripts* page, visit the sample Java applet that I wrote using Visual J++™ to plant the seed for "WorkShare/Web", or try out the highly interactive yet firmly Web-based demo/game, modeled after Wheel-of-Fortune, that I wrote using JScript™.

- (1996) Designed a major part of the user interface for document management product called "WorkShare™," implementing the *Criteria Editor* (a GUI for performing Queries) with Microsoft Visual C++ in an MFC framework. Evangelized the Microsoft Repository technology.
- (1995) Thoroughly learned the Component Object Model by writing COM interfaces for extending Microsoft (TypeLib) metadata as part of the "Jupiter" framework.
- (1993/94) Worked with six engineers to prototype a GUI and underlying metadata engine which provided an Entity Relationship Data Modeling capability for Intergraph's early "Jupiter" (*moving to COM*) initiative.
- (1993) Adapted a 600-table Rdb system (e911) to use Vortex accelerator technology from *TriFox Inc.*; did benchmarking wrt SQL performance and bottlenecks.
- (1992) Prototyped mechanisms to map terabyte MGE/Dynamo object stores into persistent object databases, defined with Versant Object Technology, rendering the geometry (maps) with X Windows on Unix. Exposure to topology and *spatial operators* in a database context.
- (1992) Co-authored with John Herring the paper "A Corporate Database Approach to GIS: Techniques for Integrating Multiple GIS Applications", published in the **GIS '92** *Proceedings*. This work, with a leaning towards **Spatial Operators**, led to "Oracle Spatial" once John Herring moved to Oracle.
- (1991) Worked with Bentley Systems technical people to develop a version of Microstation where the CAD elements were stored in a persistent object database that I defined in C++ using Versant Object Technology as the data store.
- (1990) Investigated a variety of persistent object databases and application frameworks doing prototypes and benchmarks of capturing GIS (map) data - geometry and attribution - and storing it all persistently. Within this framework, an application could define a **dynamic** schema to access disparate data in a seamless fashion. This work eventually led to GeoMedia.
- (1990) Worked (in C++) on a team to transition Intergraph's Unix/Clix platform to **X Windows**.

Hewlett Packard, Apollo Systems Division	Chelmsford, Ma.	(late 1988 through 1989)

As a Senior Software Engineer, I designed / implemented an iconic ***Object-Oriented user interface*** for Apollo's well-known DSEE, the *"Domain Software Engineering Environment"*. After the HP buyout, the DSEE folks created ClearCase based on DSEE — first as *Atria*, which then became PureAtria, was then bought by Rational, and finally became part of IBM.

- Prototyped various UI mechanisms using Motif *Open Dialogue* objects (Apollo's UIMS) to demonstrate alternative object-oriented user paradigms appropriate for DSEE.
- Gave presentations of various user models; assimilated feedback from my colleagues.
- Developed the UI product definition for DSEE incorporating time and manpower constraints.
- Implemented the DSEE **graphical user interface** which was OSF's *Motif compliant*.
- Helped port HP's SoftBench to *Aegis*, Apollo's distributed Unix operating system. Learned about HP's "*tool integration environment for the 90s*" - SoftBench, HP Widgets, a message-based intra-tool communication architecture, and a truly integrated hypertext Help system.

Alsys Inc. / Alsys S.A.	Waltham, Ma. / Paris, France	(1984 to 1988)

At this French startup as a Senior Software Toolsmith, I worked directly with the inventors of the Ada language ("Green"), focusing on ***innovative CASE tools*** written in and for Ada development.

- Conceived of and prototyped the "Ada Program Viewer", a smart user interface layer capable of helping users *to understand* programs written in Ada.
- Merged this browser tool with a debug component to productize Alsys's AdaPROBE.

- Prototyped AdaEDIT, an *edit assist* tool that interacts directly with the Ada program library and numerous (15+) off-the-shelf (PC-based) text editors.
- Wrote technical documents leading to Alsys product brochures.
- Presented a paper and my Ada Viewer prototype at SigAda's "Ada In Use" (ACM) conference in Paris; **published** in the May 1985 conference *proceedings*.

Jean Ichbiah's *Alsys* went through a series of mergers with *TeleSoft*, with *Thomson Software Products*, and recently joined with *IDE - Interactive Development Environments* to become Aonix.

INRIA : the French National Computer Science Research Center	Paris, France	(1983)

As a full time researcher at **INRIA**, a famous European research center, I:

- Ported MIT's NU window system to a 68010 workstation.
- developed Unix-based tools: visual shell, bitmap (font) editor, a viewer of satellite images.
- Published a *research report* available from INRIA upon request.
- Presented my CASE prototyping work at various French research facilities.

DIGITAL Equipment Corp.	Maynard, Ma., and Nashua, NH.	(1977 to 1982)

As a beginning Software Engineer on the original VAX/VMS development team, I:

- Produced the first version of DEBUG-32, VMS's multi-language symbolic debugger.
- Created DEBUG-16: a *distributed* debugger for several PDP-11 operating systems.
- Prototyped the first version of DEC's *electronic book* tool: FLIP, a hypertext document pioneer.
- Evolved a tool *integration environment prototype* (VME) over an extended period.

Post-Secondary EDUCATION

1975 to 1979 - *University of Waterloo* : **Masters of Mathematics** (M.Math)
Major: Computer Science. Published research papers and wrote a C compiler for Texas Instrument's TI990 micro as part of my ***masters thesis*** on runtime environments and higher-level machine architectures (CISC).

1970 to 1975 - *University of Waterloo* : **Bachelors of Mathematics** (B.Math)
This was a *co-operative* (work/study) program during which I had six work terms - an accumulated two years experience in commercial and scientific computing. My work terms included stints at CERN (where Web technology was invented), and at UNAM, *Universidad Nacional Autónoma de México*.

1969 - *La Universidad de Las Américas*, Puebla (**Mexico City, D.F.**)
Studied Spanish, French, and Mathematics during this "preparatory year" in place of my "grade 13" (last year of high school in Ontario, Canada) year.

PERSONAL DATA

- Canadian citizen, permanent resident (green card holder) in the USA (since 1982)
- happily married (since 1979), with two school-age children
- I have studied/worked/lived in six countries, speaking English, Spanish, and French.
- An active member of our church choir, local Java (NEJUG) and Microsoft (Tool Shed & .Net) User Groups.