

Babak Chubak, Architect and Principal Software Engineer

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Professional Summary:

- Over 15 years of consulting experience in diverse industries and government agencies including U.S. Department of Energy, General Electric, American Family Insurance, US Bank, eFunds, Metavante, J. P. Morgan Chase, Milwaukee County Department On Aging, Oregon Department of Transportation, Shook Hardy & Bacon, World Book, Hennepin and Ramsey Counties, Runzheimer International, Miller Brewing Company, and Mercury Marine.
- Over 30 years of experience in information, software, and computer technologies that encompass areas as diverse as mobile, n-tier Web and desktop applications, client/server applications, embedded assembler control software for video teleconferencing systems, as well as payroll applications on mainframes.
- Experienced in full life-cycle development, and can perform effectively as a team member, and independently, with little or no supervision, taking on all roles, from Business Analyst to Programmer/Developer, Application Architect, and Project Manager.
- Excels as an Application Architect, but equally skilled in Interactive Design (GUI) as well as in designing and building complex business and middle layer modules, and strong and proficient in database and back end design, programming and development.
- Strong formal education background with excellent and proven problem solving capabilities, as well as exceptional ability to take on and assimilate new technologies, in many different industries, often under pressure and in critical conditions and circumstances.
- Experienced and skilled in the use of many development and analysis tools, technologies, and platforms, continually expanding and demonstrating such skills through ongoing education and industry and professional certifications.
- An accomplished mentor and instructor, with teaching experience at the university as well as technical colleges.
- Conceptually extremely strong and detailed oriented with tremendous follow through to delivery.
- Demonstrated and proven strong communication skills, with the ability to effectively work and communicate with a variety of audiences in diverse industries and situations.
- A Microsoft Certified Solution Developer and a Sun Certified Programmer. MS Degree in Computer Sciences and an MS Degree in Mathematical Statistics from the University of Wisconsin Madison, as well as twin undergraduate majors in Economics and Philosophy.

Professional Experience:

- ✓ (12/01 – present) Principal Software Engineer and Architect at **Chubak Incorporated**, designing and building commercial applications (web and desktop) as well as peer to peer mobile applications for various enterprises, implementing e-commerce (SSL / credit card processing), member accounts and membership management, product catalogs and shopping carts, using technologies: **.NET Framework 4, C#, ASP.NET, JavaScript, WCF, Windows 2008, IIS, Visual Studio 2010, Objective C, SQL Server 2008**.as well as the RDBMS (MS SQL Server

2000/2005/2008 and MySQL): Visual Studio .NET 2003/2005/2008/2010, (Frameworks 2/3/3.5/4) C#, ASP.NET, VB.NET, JavaScript, MS SQL Server 2000/2005/2008 (ADO, Transact SQL, DDL), UML, Windows 2000 XP/2003/2008/Vista/Windows 7, MS Project 2002, PHP4, PHP5, MySQL (Transactions and DDL), Macromedia Studio MX Plus, Adobe Photoshop CS, Adobe ImageReady CS, Ulead VideoStudio.

- ✓ (5/10 – 8/10) Architect and Senior Software Engineer at *GE Healthcare*, architecting and developing an n-tier web application for presenting ECG/EKG information for interactive presentation to cardiologists and another medical professionals based on the flagship product MUSE, using technologies: **.NET Framework 3.5/4, C#, ASP.NET, JavaScript, WCF, Windows 2003/2008, IIS, TFS 2010, Visual Studio 2010, VMware, SQL Server 2005.**
- ✓ (2/10 – 7/10) Architect and Senior Software Engineer at **Cayen Systems, LLC**. Lead member of the engineering team tasked with design, development, analysis, creation or modification, and testing of software programs including prototypes, based on and related to client or system design specifications for current and future Cayen Systems offerings. **VB.NET ASP.NET, SQL Server 2000/2005/2008, AJAX, Web Services, Agile, Test Driven Development.**
- ✓ (12/07 – 9/09) Lead Software Engineer at *U.S. Department of Energy, Savannah River Site*, overseeing the upgrade multiple software applications to a **Microsoft .NET** platform in support of the facilities managing nuclear liquid waste operations as it relates to the safe, secure, and cost-effective management of nuclear weapons stockpile, nuclear materials, and the environment: **Windows XP Professional, C#, VB.NET, Visual Studio 2005/2008, Framework 3.0/3.5, MS SQL Server, 2000/2005/2008, TOAD, Visio, Microsoft Project, Crystal Reports, Business Objects, Lotus Notes, Web Services, Remoting, UML, AJAX, LINQ, WCF.**
- ✓ (6/06 – 10/07) Principal Software Engineer at *Sellars (Sellars Wipers & Sorbents)*, maintaining and enhancing intranet and desktop applications for running and managing the production line, order entry and quality control: **MS SQL Server 2005, Visual Studio 2005, Windows XP Professional, Windows Server 2003, Microsoft Office 2007, Microsoft Windows Vista Ultimate, Microsoft .NET Framework 2.0, VB.NET, C#, Pervasive, Web Services, UML.**
- ✓ (5/05 – 12/05) Principal Software Architect at *eFunds Corporation*, modeling **DataNavigator®**, an **n-tier** application which provides transaction research, exception management, device management, settlement and reporting for pin based and signature based transactions for ATM and POS. Environment: **DB2 and MS SQL server, C++, MS SQL Server, Java, J2EE, Delphi, Rational Rose, RUP, SCRUM, MQ Series, UML.**
- ✓ (11/04 – 05/05) Principal Software Developer at *Oregon Department of Transportation* converting and reengineering legacy **VB** applications from **Informix** to **MS SQL Server**. Developed document-imaging applications interfacing with **DB2** and **MS SQL server**. Environment: **VB, MS SQL Server, Informix, DB2, COBOL, VB.NET, C#.**
- ✓ (6/04 – 10/04) Project Manager and Technical Lead of four developers and two support personnel at *US Bank* to implement an enterprise level application for project management, an extensively enhanced implementation of **IBM/Rational ClearQuest** with much added functionality to manage all aspects of projects including financial estimates and monitoring, impacted business areas, and management of all testing and version/release control through **IBM/Rational ClearCase**. Environment: **Windows 2000, MS Project 2000, Lotus Notes, IBM/Rational ClearQuest, ClearCase, and RequisitePro, UML.**
- ✓ (10/03 – 1/04) Testing Architect, member of team at *Systems and Services Technologies, Inc*, a

subsidiary of *J. P. Morgan Chase & Co.*, to convert Remote, their online and batch financial application for servicing third party auto loans, from **Pervasive (Btrieve)** to **Microsoft SQL Server 2000 Enterprise Edition**. Responsible for analyzing proof of concept test results and providing recommendations to the Technical Lead. Environment: Also responsible for designing and implementing multi-thread solutions in **Delphi** to enhance performance. **Windows 2000 XP Professional, Windows 2000 Advanced Server, Microsoft SQL Server 2000 Enterprise Edition, Pervasive, 7.0, C++, .NET, VB.NET, C#.**

- ✓ (5/03 – 8/03) Principal Software Engineer at *Milwaukee County Department On Aging, Wisconsin*, designed, built and implemented object oriented **HIPAA** custom applications and supporting **RDBMS** database tables, using **Visual Basic 6.0, MS SQL Server 7.0 (ADO, Transact SQL, DDL), Access** and **Crystal Reports 8.5**, on a **Windows 2000** platform, to translate interchange files for Payroll Deducted and Other Group Premium Payment For Insurance Products, 820, **ASC X12N 820 (004010X061A1)** and Benefit Enrollment and Maintenance, 834, **ASC X12N 834 (004010X095A1)** and to generate interchange files for Health Care Claim: Institutional, 837, **ASC X12N 837 (004010X096A1)**.
- ✓ (3/02 – 8/02) Senior Software Engineer on n-tiered **PowerBuilder** financial applications Extended Account Analysis (XAA) software for account analysis and reporting, XAA Workbench, an n-tier graphical enhancement to XAA at *Metavante*. Principal Software Engineer certifying the application by porting the application from an **Intel/Windows** platform to a **Solaris/Unix** platform. Instrumental in the upgrade of the application from **PowerBuilder 7.0.3** and **Sybase EAServer/Jaguar/CTS 3.6** to **PowerBuilder 8.0.1** and **Sybase EAServer 4.1** on the **Intel/Windows and Solaris/Unix** platform. Managed stress tests for the purpose of establishing optimal/practical hardware configuration for the deployment to **UNIX** platforms as application servers. Software maintenance and change management using **PVCS**.
- ✓ (9/01 – 1/02) Designer and developer on a global Web-based n-tier virtual online center application at *GE Medical Technology Services, Inc.* to support engineers in providing global support for medical diagnostic equipment. The application was implemented using **J2EE** technology: **Java Servlets, JavaBeans, JSP**, as well as **HTML** and **JavaScript**. It interfaces to an **Oracle8i** database and is managed by a **Tomcat** Web server hosted on Sun servers running **Solaris UNIX**. Performed software maintenance, testing and change management using **PVCS**.
- ✓ (8/00 – 8/01) Managed, analyzed, designed, developed and implemented a three tier time entry system for *Shook Hardy & Bacon L.L.P.*, an international law firm, to be used by over two thousand hourly and exempt employees. The three-tier architecture allows the application to be deployed concurrently as a traditional client server executable as well as through the Internet. Defined, design and implemented complex **RDBMS** database schema for storing time entry, allowing for multilevel and complex updating and backing out of changes programmatically, by users with different levels of security and access authority. The application was developed using **Visual Basic 6.0, MS SQL Server 7.0 (ADO, Transact SQL, DDL), Access, IIS, COM/COM+, MTS, ASP 3.0, JavaScript** and **Windows NT/2000**.
- ✓ (10/99 – 8/00) Project manager and technical lead for a team of three that built a Web-based sales force management system for *World Book, Inc.*, an International Book Publishing company. The application was implemented for **Internet Explorer 5.0** using **InterDev 6.0** and **Active Server Pages (ASP 2.0)** technology with **IIS, JavaScript** and **SQL Server 7.0 (ADO, Transact SQL)** for the database server.
- ✓ (1/00 – 5/00) Designed a major three-tier application, as first phase of a Web application, to process citations for motor vehicle violations as part of a joint development effort by *Hennepin and Ramsey Counties, Minnesota*. The system was designed fully utilizing **OO** methodologies

and documented using **Rational Rose 2000**. The application was implemented using **PowerBuilder 7.0, Jaguar Transaction Server, MS SQL Server 7.0, and Oracle8i**.

- ✓ (1/99 – 10/99) Leading a team of four people, defined, designed and implemented an Auto Quote system, for *American Family Insurance Company*, fully using **Object Oriented** design and implementation methodologies. The application was implemented in **Delphi** and interfaced an **Oracle** database in a **Windows 9x/NT** environment.
- ✓ (3/98 – 1/99) Managed project to analyze requirements for rewriting a legacy yard management system at *Yellow Systems* using **PowerBuilder 5.0**. Created RFP document for distribution by client. Maintained system for scheduling customer service representatives at *JCPenney* using **Delphi** and **MS SQL Server**. Software developer, building an object based GUI interface for maintaining reference tables in the database at *ThinkMed*, for a health insurance data mining application, using **Visual Basic 5.0, MS SQL Server 6.5, Crystal Reports, MS Office Automation, and Windows NT**. Technical Lead to assess and recommend software and business process improvements for a set of five applications at *Electronic Printing Systems* for enrolling automobile dealerships. Environment: **Visual Basic, Informix, Access, Crystal Reports, and Windows**.
- ✓ (3/97 – 2/98) Project Lead at *Runzheimer International*, an international management-consulting firm, for the re-engineering effort to migrate client/server and legacy mainframe applications to 3-tiered Internet enabled platform/architecture. Developed GUI front-end application and SQL Server stored procedures for creating management policies in connection with relocation cost of personnel, as well reporting systems for creating individualized reports for relocation expenses and location living cost comparison reports. Created extensive sql scripts, stored procedures and triggers for manipulating, cleansing and extracting on demand perishable data. Built **custom DLL's and extended procedure DLL's for MS SQL Server**. The applications were developed in **Visual C++, Visual Basic, and MS SQL Server** databases, in a **Windows 95/NT** environment.
- ✓ (6/96 – 2/97) Upgraded a large order entry system for an international forms printing and management in **Visual Basic** requiring extensive Access database interaction and custom control grid/spreadsheet manipulation. The application communicated with the client's **BPCS** server over an FTP link under program control. Developed a server in Visual Basic using **OLE Automation** technology. Developed stand alone and multi-user utility applications and sales management tools for the client's customers and its own sales personnel, using **Visual Basic, Access and SQL Server**.
- ✓ (4/95 – 4/96) Designed and implemented an application at *ARI Network Services* in **Visual Basic**, under **Windows 95**, utilizing **Windows API's** to automate communication for an **EDI Client/Server** application, integrating an e-mail client application, a Telnet application, and a dial-up **TCP/IP** stack. Implemented automated test system for the Sales Management System developed in **PowerBuilder**. Maintained, tested and change managed **PowerBuilder** applications using **PVCS**.
- ✓ (10/94 – 12/94) Defined, designed and implemented an **OO** distributor returns **Client/Server GUI** application for *Miller Brewing Company*. The application was implemented in **Visual Basic** for **Windows**, used **MS Access** for **Windows**, and interfaced to **UNIX** servers running **MicroFocus COBOL** applications interfacing with **DB2** databases on IBM mainframes.
- ✓ (12/92 – 5/94) Designed a **Client/Server, RDBMS** warehousing system for *Mercury Marine*, using system modules in **C/C++ and Visual Basic**, over a **Novell** network, to collect data in various formats from diverse measuring machines of the shop floor and make it available to

multi-vendor **SPC** software packages. Developed Visual Basic for Windows GUI interface, C based file management utilities in DOS, and HP Basic software on the PC to integrate Coordinate Measuring Machine output for use by Statistical Process Control software over Novell and LANtastic networks at an international outboard engine manufacturing company.

- ✓ (7/77 – 11/92) At **Wisconsin Bell** and **Ameritech Services** designed video teleconferencing architecture, and protocol. Developed **68000** and **6502** microprocessor based, real time control software interfacing with video and audio switches for a switched video teleconferencing system. Developed and maintained mainframe payroll, (**IMS, VS COBOL CICS/IMS**). Defined, designed, implemented, and taught a comprehensive 85-day Basic Programmer Training Curriculum for Analyst/Programmers.

Employment:

2001 to Present

Architect and Principal Software Engineer, Chubak Incorporated, Wauwatosa, Wisconsin

1996 to 2001

Senior Consultant, Carlson Group, Inc., formerly New Resources Corporation, Milwaukee, Wisconsin

1995 to 1996

Lead System Designer, ARI Network Services, Inc., Milwaukee, Wisconsin

1994 to 1995

Senior Software Engineer, Computer Task Group, Inc., Milwaukee Wisconsin

1992 to 1994

Software Engineer, Independent Contractor, Milwaukee, Wisconsin

1988 to 1992

Senior Telecommunications Analyst, Ameritech Services Inc., Milwaukee, Wisconsin

1977 to 1988

Technical Manager, Programmer/Analyst, Wisconsin Bell, Milwaukee, Wisconsin

Instructor

- Waukesha County Technical College (1/95 – 5/95)
- Milwaukee Area Technical College (9/78 – 5/80)
- University of Wisconsin, Madison (8/74 – 5/77)

Education:

University of Wisconsin, Madison

- Doctoral Studies, Computer Sciences (1975 – 1977)
- MS Degree: Computer Sciences (1975)
- MS Degree: Mathematical Statistics (1971)
- BA Degree: Economics and Philosophy (1968)

Professional Accreditation & Certifications:

- Sun Certified Programmer for the Java 2 Platform (8/2000)
- Microsoft Certified Solution Developer, Visual Studio 6.0, MCSD, (4/1998)