Attila Barta

Experience

1998-Present **INTERNATIONAL BUSINESS MACHINES**

Senior Managing Consultant – Technology Strategy, Business Consulting Services **Toronto, ON**

- Led client facing engagements in capacities such as: Engagement Manager, Pre-Sales (Technical Sales), Systems Engineer, Lead Architect, Project Manager in industries such as: finance, telecom, CRM, federal and provincial government in Canada, US and the Caribbean
- Led compliance projects, i.e. Sarbanes-Oxley, SAS-70, for large financial institutions based on the COBIT and ITIL frameworks using the RUP methodology and the IBM GS Method
- Extensively involved in the Pre-Sales process from bid development to client signing, including client proof-of-concept, client presentations and workshops, for large financial institutions, federal and provincial government and large telecom companies using the IBM Signature Sales Method
- Awarded the "IBM Service Excellence Award", "IBM Bravo Achievement Award" and the Royal Bank of Canada "You Made a Difference" award for excellence in consulting

Systems Engineer – WebAhead Lab (IBM's advanced R&D lab) **Southbury, CT**

IBM intraGrid project
- Contributed to the development, marketing and pre-sales of intraGrid – an IBM tool for managing large grid infrastructures based on OGSA standard and the Globus Tool Kit

Lead Architect – Extreme Blue (IBM High Performance Teams) **Raleigh, NC**

Autonomic Computing Middleware project
- Lead the design, proof-of-concept and marketing of a novel paradigm for customer product management and large scale deployments using a knowledge base approach and a SOA architecture
- Filled seven patent applications, awarded the IBM Invention Achievement Award

System Analyst – Almaden Research Center **Almaden – San Jose, CA**

DB2 XML Wrapper project – provides transparent SQL access to relational and XML data
- Designed the algorithm and implemented TurboXPath, a lightweight twig-query / XPath processor, according to DB2 engine quality requirements and IBM's SDLC requirements
- Developed XML Cutter, a packaging of TurboXPath to address the CLOB size limitations in the DB2 XML Extender

Research Scientist – Centre for Advanced Studies **Toronto, ON**

- Developed a WebOQL based technology (a 2nd generation Web Query Language) for analytic processing of large software engineering tools, i.e. Refine, Riggi and Software Bookshelf

2002-2003 **KNOWLEDGE4YOU.COM** **Toronto, ON**
Consultant / Pre-Sales Architect

- Extensively involved in pre-sales actives, such as client proof-of-concepts, presentations and customizations for BI solutions based on the Olap4You engine
- Developed benchmarks for the database back-end of Olap4You – a business intelligence tool using DB2-UDB, Oracle, SAP-DB, Pervasive-SQL, BerkeleyDB, MySQL

2001-2002 **ONTARIO CANCER INSTITUTE** **Toronto, ON**
Consultant / Data Architect – Division of Cancer Informatics

- Led developed for a solution to integrate multiple web-enabled genomic sources
- Setup and administered massive parallel genomic databases in DB2-UDB on IBM-SP clusters

2000-2001 **BELL UNIVERSITY LABORATORIES** **Toronto, ON**
Lab Manager – Knowledge Management Lab

- Led development, marketing and pre-sales for EXIP (Executive Information Portal) a Knowledge Management System providing tools for building and analyzing semantic models and DocMan, a Content Management System for enterprise strategic business analysts
- Led the development of v2 of ToX (Toronto XML Engine) a native XML database system

1998-2003 **UNIVERSITY OF TORONTO** **Toronto, ON**
Lecturer – Department of Computer Science

- Lectured 3rd/4th year undergraduate courses in Database Systems and Systems Analysis and Design

Research Scientist – Computer Systems Research Group

- Developed a cost based query optimizer for native XML databases. Proposed a novel cost model for access path selection in XML databases and a novel two-stage XML query optimization strategy
- Developed a methodology for integrating large Web sources using domain ontologies. Implemented proof of concept, Apparel WebCat, a comparison shopping portal for apparel catalogs
- Raised Venture Capital financing for Apparel WebCat

1996-1996	**QUAD INFOTECH**	**Toronto, ON**

Systems Engineer

- Extensively involved in Pre-Sales, Customer Management and Training for QMOS, a real time decision support system for the steel industry implemented in PowerBuilder and Oracle

1992-1995	**ACADEMY OF ECONOMIC STUDIES**	**Bucharest, Romania**

Associated Assistant Professor - Faculty of Cybernetics and Informatics

- Lectured $3^{rd}/4^{th}$ year undergraduate courses in Database Systems and Information Systems Design
- Participated in joint research projects on large information retrieval systems

1993-1995	**NATIONAL RESEARCH INSTITUTE FOR INFORMATICS**	**Bucharest, Romania**

Senior Research Scientist

- Participated in development of RomCat, an integrated software for cataloguing, using the national cataloguing format (ROMARK) and FOCUS, an Information Retrieval System for Large Libraries

1992-1993	**TECHNICAL UNIVERSITY OF CIVIL ENGINEERING**	**Bucharest, Romania**

System Analyst

- Participated in system analysis and implementation of BDUC, a nation-wide integrated system for surveillance of hydroelectric dams

1989-1992	**IFET DATA PROCESSING CENTER**	**Csikszereda, Romania**

Software Engineer

- Participated in development of enterprise software packages for accounting, finance and engineering
- Administered heterogeneous networks of PDP-11, CP/M and DOS machines

Skills

Programming Languages:	Java, C++, JavaScript, Perl, Pascal, Fortran, Basic, SQL-3, FoxPro
DBMS:	DB2-UDB, Oracle, MS SQL Server, Berkeley DB, Pervasive SQL, FoxPro
Technologies:	SOAP, WSDL, Servlets, JSP, WebSphere, TomCat, Globus Tool Kit
Operating Systems:	AIX, Solaris, Linux, Novell, Windows, VMS, RSX-11, MS-DOS, CP/M
Methodologies:	SOA (Service Oriented Architecture), CBM (Component Business Modeling), IBM GS Method, IBM Tivoli Unified Process, IBM Signature Sales Method, RUP, ITIL, COBIT, UML, SSADM, Merise

Education

	UNIVERSITY OF TORONTO	**Toronto, ON**

1998-2005 *Ph.D. in Computer Science*
- Thesis – *Access Methods for XML Query Optimization*, advisor *Prof. Alberto O. Mendelzon*
- IBM Centre of Advanced Studies scholarship 1998 - 2000

1996-1998 *M.Sc. in Computer Science*
- Thesis – *WebCat - Information Integration for Web Catalogs*, advisor *Prof. Alberto O. Mendelzon*
- University of Toronto Open Doctoral Fellowship 1996 - 1997

1984-1989	**UNIVERSITY OF BUCHAREST**	**Bucharest, Romania**

Engineering Diploma (B.S. & M.Sc.) in Nuclear Physics, advisor *Prof. Mircea Bercu*
- Thesis – *Testing p-n Junctions using Alpha particles* – filed as a patent, made a major improvement in non-destructive quality control in the semiconductor industry

Publications

- List of publications at request

Patents

- Filled seven invention disclosures (list at request), awarded the IBM Invention Achievement Award

Professional Association

- Assoc. of Computing Machinery, BI Research Network of Canada, IBM Center of Advanced Studies

Hobbies

- Soccer, squash, hiking and the Toronto International Film Festival