

# Trevor H. Jacques

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## EMPLOYMENT AREA

- Business and data systems architecture and analysis.

## PERSONAL OBJECTIVES

- To provide innovative and beneficial strategies/solutions in response to business challenges and opportunities.
- To facilitate introduction of and migration to new approaches and technologies to support business objectives.
- To share knowledge and experience through training and mentoring.
- To be continuously learning, in an environment with high standards and ethics.

## MAJOR SKILLS

- Business analysis / Business systems analysis.
- Business systems integration, architecture, and analysis.
- Project management.
- Architecture development - data and applications.
- Data analysis and design.
- Web-based survey design and implementation.
- Software methodologies.
- Learn quickly.
- Communication skills.
- Bilingual English/French.

## FAMILIAR WITH

- Rational Unified Process (RUP)

## WORK EXPERIENCE

### **Contract Consultant - Web Surveys, August 2004 - Present**

#### **The Uniformed Services University/The Henry Jackson Foundation, Washington, D.C..**

- Architected, designed, and implemented metabase-driven, web-based, client-server version of psychosocial survey instrument.
- Specified and installed web server to deploy web-based survey.
- Ensured appropriate data security in place, including firewall protection, password security scheme.
- Software: Lasso, html, JavaScript, FileMaker Pro, PhotoShop, SPSS, MS Office
- Hardware: Macintosh and Windows/PC.

### **Systems Architect / Data Analyst, 2002 - Present**

#### **Videlicet.com, Toronto**

- Specified complete metadata-driven architecture, designed, and implemented survey creation product for rapid development of complex, secure, client-server web-based surveys for multi-platform, multi-server deployment. (This and the web/database work that follows utilise my fourteen years of experience in the military systems engineering and software development life cycle, and my business analysis and logical data modelling, from 1980-1994.)
- Created web site for sales and promotion of the survey product and services, including fully functional demonstration surveys in several formats.
- Maintain corporate web site.
- Market product and services on the Internet.
- Software: WebSTAR 4 and 5, Lasso, LDML 3 and 6, html, JavaScript, FileMaker Pro, CDML, NetCloak, PhotoShop, FrameMaker, Quark XPress, SPSS.
- Hardware: Macintosh (OS 9 and OS X) and Windows/PC.

### **Consultant - E-Commerce, Sep 2002 - Present**

#### **Spectacle Entertainment Productions, Inc., Toronto**

- Designed, implemented, and maintain custom-built web store. Store is fully integrated in real-time to sales system database to provide sales force with instant feedback.
- Designed and implemented e-mail marketing system linked to corporate sales database.

## **Trevor H. Jacques**

- Software: WebSTAR, Lasso LDML 6, html, JavaScript, FileMaker Pro, CDML, NetCloak, MacDNS, Eudora, PhotoShop, Quark XPress, AppleScript, Office.
- Hardware: Macintosh OS X.

### **Graphic Designer, Dec 2002 - Oct 2003 Not-for-profit organisation, Toronto**

- Graphic design for all ephemera of the organisation's 2003 marketing campaign.
- Software: PhotoShop, Illustrator, Quark Xpress.
- Hardware: Macintosh.

### **Consultant - Web Surveys, Dec 2002 - May 2003 Private Client, Ottawa**

- Designed and implemented complex IP- and browser-based client intake questionnaire (75 pages, >1,100 questions) for co-director of psychiatric hospital.
- Metadata-driven system architecture designed for stand-alone computers, but also for rapid upgrade to multi-platform, multi-user, client-server web-based system.
- Software: WebSTAR, html, JavaScript, FileMaker Pro, CDML, PhotoShop, SPSS, MS Office, Corel WordPerfect.
- Hardware: Macintosh and Windows/PC.

### **Consultant - Web Surveys, Oct 2001 - Nov 2001 Public Safety Group, Manassas, Virginia (WDC area)**

- Implemented client-server web survey with skip patterns for an 'emergency' deployment. 38 pages, including skips patterns and data checking were implemented in approximately three days.
- Aided in debugging questionnaire, analysis of data, and presentation to academic conference.
- Software: WebSTAR, Lasso, html, LDML 3, JavaScript, FileMaker Pro, PhotoShop, SPSS, MS Office
- Hardware: Macintosh

### **Contract Consultant - Web Surveys, May 2001 - Aug 2001 Walter Reed Army Institute of Research, Silver Spring, Maryland (WDC)**

- Architected, designed, and implemented metabase-driven, web-based, client-server version of psychosocial survey instrument.
- Specified and installed web server to deploy web-based survey.
- Ensured appropriate data security in place, including firewall protection, password security scheme.
- Software: MS IIS, Lasso, html, LDML 3, JavaScript, FileMaker Pro, PhotoShop, SPSS, MS Office
- Hardware: Macintosh and Windows/PC.

### **Chief Information Officer, Sept 1998 - Sept 2001 Stott Pilates and Equipment Sales, Toronto**

- Complete responsibility for all technology within the corporation (gross sales approximately \$12M p.a.)
- Specified and purchased IT equipment and architecture for corporation.
- Analysed authoritative data to create operational data store (ODS) for on-line analytical processing (OLAP) of corporate data for business intelligence, data support systems, and data mining.
- Designed, implemented, and maintained network and sales database system for two parts of corporation.
- Designed, implemented, and maintained interface between sales database and three off-the-shelf accounting packages.
- Designed, implemented, and maintained custom-built web store, which sells approximately \$6M p.a.. Store is fully integrated in real-time to sales system database to provide sales force with instant feedback.
- Designed and implemented e-mail marketing system linked to corporate sales database.
- Designed and implemented corporate data security, backup, and archiving process.
- Implemented and maintained corporate e-mail server.
- Software: WebSTAR, Lasso, LDML 3, html, JavaScript, FileMaker Pro, CDML, NetCloak, MacDNS, QuickDNS, EMailer, Eudora, PhotoShop, Quark XPress, FileFax Pro, AppleWorks, AppleScript, MS Office.
- Hardware: Macintosh, Windows/PC, Bell Modular PBX, miscellaneous routers and hubs.

### **Publisher/Editor/Author, 1997 - 2000 Click & Drag, Inc., Toronto**

- Researched, edited, and published largest directory of its kind in printed, CD-ROM, and client-server web format.

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- Software: WebSTAR, Lasso, LDML 3, html, JavaScript, FileMaker Pro, FileMaker SDK, NetCloak, MacDNS, Eudora, PhotoShop, Quark XPress, FileFax Pro, AppleScript, MS Office.
- Hardware: Macintosh, Windows/PC, miscellaneous routers and hubs.

### **Translator, May 2000**

#### **Spencer Higgins Architect, Toronto**

- Translated specifications for the restoration of the Library of Parliament, Ottawa, from English to French.
- Software: Miscellaneous IBM AIX utilities, including word processing.
- Hardware: IBM AIX.

### **Consultant - Relational Databases, 1995/1997**

#### **Accomplice, Toronto**

- Performed data architecture analysis/modelling for client-server relational database system for use by casting directors and the rest of the Canadian theatre, film, and television industry.
- Web-enabled casting database system.
- Software: WebSTAR, Lasso, LDML 3, html, FileMaker Pro, NetCloak, MacDNS, Eudora, PhotoShop, FileFax Pro, AppleScript, MS Office.
- Hardware: Macintosh.

### **Publisher/Editor/Author, 1996 - 1997**

#### **Gay Guide Canada, Inc., Toronto**

- Researched, edited, and published the largest directory of resources of its kind for print, CD-ROM, and web.
- Directed development of client-server database system for sales, marketing, and publication of directory.
- Performed sales of advertisements for directory, sufficient to create a viable company in its first year.
- Software: WebSTAR, Lasso, LDML 3, html, JavaScript, FileMaker Pro, FileMaker SDK, NetCloak, MacDNS, Eudora, PhotoShop, Quark XPress, FileFax Pro, AppleScript, MS Office.
- Hardware: Macintosh, Windows/PC, miscellaneous routers and hubs.

### **Director, Marketing, 1993 - 1994**

#### **Orapro, Toronto**

- Directed marketing for new corporate product.
- Performed data analysis on the Canadian Climatological Database (a data warehouse) to help construct analytic processes at Atmospheric Environment Canada.
- Software: Vax/VMS, Vax Unix, SQL, MOTIF, Oracle, Sybase, Ingres, Sharebase, Teradata, DB2, MS/SQL, RMS, Rdb/VMS, SmartStar, Sapiens Ideo, SmartReport, ReportPainter, SmartMove, SmartBuilder, ISQL, FileMaker Pro, Eudora, PhotoShop, FileFax Pro, AppleScript, MS Office.
- Hardware: Macintosh, Windows/PC, Digital VMS and Unix, HP Unix, IBM Unix, Teradata, miscellaneous routers and hubs.

### **Publisher/Editor/Author, 1992 - Present**

#### **Alternate Sources, Toronto**

- Wrote, edited, typeset, published, and marketed national best-selling safety manual.
- Wrote, edited, typeset, published, and marketed largest directory of resources of its kind in the world.
- Edited *de facto* standard safety flyer. This pamphlet is used around the world as a model.
- Created web site with secure server and client-server database search engine of directory.
- Published the event programme for largest Canadian community celebration.
- Created CD-ROM application for cross-platform use of directory.
- Designed membership and archive acquisitioning database for an international archive in Chicago.
- Present safety lectures and workshops to psychiatric faculty, medical professionals, and to student and community organizations in Canada and abroad.
- Many live radio and television interviews, and many printed publication interviews.
- Designed and implemented web server hardware/software configuration so that fifteen web hosts and their databases can run and back up unaided, even after power failure.
- Software: WebSTAR, Lasso, LDML 3, html, JavaScript, FileMaker Pro, FileMaker SDK, NetCloak, MacDNS, Eudora, PhotoShop, Quark XPress, FileFax Pro, AppleScript, MS Office.
- Hardware: Macintosh, Windows/PC, miscellaneous routers and hubs.

### **Director, Consulting, 1992 - 1993**

#### **SmartSystems Corporation, Toronto**

- Directed consultants and support staff.

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- Developed Rapid Application Development (4GL/RAD) course for client-server corporate databases.
- Developed sales and marketing tools for consultant support.
- Software: Vax/VMS, Vax Unix, SQL, MOTIF, Oracle, Sybase, Ingres, Sharebase, Teradata, DB2, MS/SQL, RMS, Rdb/VMS, SmartStar, Sapiens Ideo, SmartReport, ReportPainter, SmartMove, SmartBuilder, ISQL, FileMaker Pro, Eudora, PhotoShop, FileFax Pro, AppleScript, MS Office.
- Hardware: Macintosh, Windows/PC, Digital VMS and Unix, HP Unix, IBM Unix, Teradata, miscellaneous routers and hubs.

### **National Support Manager, 1990 - 1992**

#### **SmartSystems Corporation, Toronto**

- Managed support and marketing efforts of Canadian office of U.S. company.
- Trained staff and customers in use of company products.
- Helped field test radically new version of client-server database software.
- Provided technical support for the SmartStar VAX/VMS product to customers in Canada and U.S..
- Software: Vax/VMS, Vax Unix, SQL, MOTIF, Oracle, Sybase, Ingres, Sharebase, Teradata, DB2, MS/SQL, RMS, Rdb/VMS, SmartStar, Sapiens Ideo, SmartReport, ReportPainter, SmartMove, SmartBuilder, ISQL, FileMaker Pro, Eudora, PhotoShop, FileFax Pro, AppleScript, MS Office.
- Hardware: Macintosh, Windows/PC, Digital VMS and Unix, HP Unix, IBM Unix, Teradata, miscellaneous routers and hubs.

### **Systems Engineer, 1981 - 1990**

#### **Spar Aerospace Limited, Toronto**

- For the largest contract on the Canada/U.S. defence sharing agreement, planned and developed relational database to create military standard Interface Design Specification. Coördinated data input to the final document.
- Wrote, reviewed, and negotiated requirements documents, functional and design specifications, interface design specifications, and test specifications.
- Helped introduce the concepts of Barry Boehm's "Software Engineering Economics" (one of the foundations of the object-oriented (OO) development life cycle, as exemplified by the rational unified process (RUP)) into military software development life cycles (SDLC).
- Uncovered deficiencies in a series of specifications. Coördinated and negotiated corrections to save approximately \$750,000.
- Performed requirements and functional allocation for an infra-red sensor system.
- Designed and implemented software 3-D graphing/modelling tool.
- Designed and implemented 2-D spatial filtering software for target detection in noise.
- Specified and reviewed Human Engineering for military display systems.
- Developed state-of-the-art distributed Built-In-Test philosophy.
- Performed object-oriented (OO) analysis of secret satellite surveillance data.
- Researched external effects of stress on human visual target detection.
- Designed and implemented system simulation tools in a VAX/VMS environment.
- Software: Vax/VMS, FORTRAN, miscellaneous text editors, databases, and assembler. Miscellaneous military software packages, including CMS2-M.
- Hardware: DEC Vax, DEC PDP-11.

### **Systems Engineer, 1981**

#### **Computing Devices Company, U.K.**

- Wrote Acceptance Test Specification and Procedure for Tornado ADV aircraft Missile Management System.
- Specified and performed hardware modifications to avionics system test rig for final system acceptance.
- Designed and supervised destructive testing of electronic devices.
- Software: Custom-built assembler-level code for use with custom-built missile avionics test rig.

### **Field Seismologist, 1979 - 1981**

#### **Seismograph Service (England) Limited**

- Managed 20-25 employees on a day-to-day basis.
- Used high speed multiplexers and tape recorders in the field. Used knowledge of matched filters and correlation in hardware and software. Performed repair of field equipment on an as-required basis.
- Used industry- and company-specific custom hardware and software.

# Trevor H. Jacques

## ABSTRACTS

- Many abstracts, papers, and poster presentations at scientific conferences in Canada, the U.S., and Europe.

## PAPERS PRESENTED AT SCIENTIFIC MEETINGS

- A best-selling book, several other books, and articles and reprints in publications in North America and Europe.

## PUBLICATIONS AND ARTICLES

- Articles in many North American and European newspapers and magazines, including a series of articles about database Rapid Application Development in *Computing Canada*.

## NEWSPAPER AND MAGAZINE INTERVIEWS

- *The Globe and Mail*, *The Toronto Star*, *The Toronto Sun*, and many others in North America and Europe.

## RADIO AND TELEVISION

- Frequent invited guest on television and radio in North America and Europe.

## INVITED PRESENTATIONS TO STUDENT AND COMMUNITY GROUPS

- Student groups at University of Toronto, York University, and Ryerson Polytechnical University.
- Community groups in Toronto, Hamilton, London (England), Chicago, New York, and others.

## EXPERT WITNESS

- Expert witness for defence in legal case in Toronto.

## UNIVERSITY EDUCATION

- B. Sc. (Physics), Associate of the Royal College of Science (A.R.C.S.), Imperial College of Science and Technology, London, England. 1978.

## PROFESSIONAL DEVELOPMENT

- Currently pursuing research doctorate (Maimonides University, Florida). Performed anonymous survey of visitors to web site to determine demographics of people in a specific part of the community.
- Object-Oriented (OO) Requirements Analysis (Peter Coad for Technology Training Corporation), now known as 'Together' by Borland.
- Software Requirements and Specifications (Integrated Computer Systems).
- CMS2-M (Sperry-Univac).
- Display Systems (University of Michigan).

## PROFESSIONAL AFFILIATIONS

- Associate Member of The Institute of Physics.
- Associate Member of The Royal College of Science.

## VOLUNTEER ACTIVITIES

- Co-founder, developed, coördinate, and present the best attended, longest running series of safety seminars held under the auspices of local not-for-profit organisation.
- Coördinated and captained twenty-member running teams for the Royal Ontario Museum (won the ROM Challenge Trophy two years in succession).
- Local not-for-profit organisation award for 10 years of outstanding service, 2002.

## RECREATIONAL ACTIVITIES

- Windsurfing, snow skiing, roller blading, photography, swimming.

## OTHER

- Bilingual English and French.
- Fair knowledge of German.

References and further data available upon request.

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## SOFTWARE (ALPHABETICALLY, WITH VERSIONS WHERE APPROPRIATE)

AccPac	Acrobat 4 and 5	Acrobat Distiller 4	Adobe Type Manager
AETracker 3	AppleScript	Assembler	Bar Code Pro
BASIC	BEdit 6.5	ccAuthorise 2.1	CMS2-M
Communicator 1-4.7	DateBook Pro 4.0	DB2	Disk 10
Disk Warrior	Drive Setup	EIMS 3	EMailer 2.0
epsConverter	EPStoPICT	Erwin	Eudora Pro 5.1
Excel 4.0	Explorer 2-5.5	FaxSTF 3-6	Fetch (FTP) 3-4
FileFax Pro	FileMaker 1.0-7.0	FileMaker Server	FileMaker Unlimited
FileMaker Web Server Connector		FileMakerSDK 3.0	Font Creator
FontHarmony	Fontographer	FORTRAN	FrameMaker 6
FreeHand 7	Funnel Web 4.5	GifBuilder	GIFConverter
Graphic Converter	HardDisk Toolkit 1-2.5	Hypercard 2.3	ICMPLogger
Iconizer	Illustrator 10	Ingres	IPNetSentry
ISQL	JPEGView	Keep It Up	Lasso 3.x-8.0
M.Y.O.B.	Mac Telnet	MacAfee	MacDNS 1.0.4
Macjodomo	MacProject	MacsBug	Mail
Mailbox to FMP	MS Office 98	MS Word 5 to 98	MS/SQL
NetCloak 3.2	Netscape 7	NetSplat	Norton Antivirus 2-5
Norton SystemWorks	Norton Utilities 2-5	Okey-Dokey-Pro 2	Opera 5
Oracle	Organizer 2	Outlook Express	PageMaker 6.5
PageSentry 2.5	Photoshop 7	Pounder II	ProCite 4
QuarkXPress 5.01	QuickDNS 3.5	Quicken	QuickTime
QX Tools	ramBunctious	ReportPainter	ResEdit
ROFM 4	Safari 1.0	Sapiens Ideo	SCSI Probe 2-5
ShareBase	SmartReport	SmartStar	SoftWindows 3
Sound Utilities	SPSS 9-11 Mac	SPSS 9-11 Windows	SQL
Statview 5	Streamline 3	Stuffit	Suitcase 8-10
Summary Pro	Sybase	TechTool Pro 2-3	Telnet
Teradata	Timbuktu Pro 3-6	Toast 5	Transparency
TTConverter	Type Reunion	Vax/VMS Software	Virex 2-5
Virtual PC	WebStar 4.5 and 5.3	WebStar SSL 4.5 and 5.4	WhatRoute 1.7
WordPerfect 3.5	Works 5	ZipIt 1-2	

## HARDWARE/OS (ALPHABETICALLY)

Apple I and II	DEC PDP 11	DEC VAX/VMS	HP Unix
IBM PC	IBM Unix	Mac OS 9 and X	MOTIF
Nascom II	Power Macintosh	Sun	Teradata
Unix	Windows		