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Education:

M.A., mathematics, University of Washington, Seattle, 1983.

B.A., philosophy and mathematics, Wesleyan University, Middletown, Ct., 1981.

Professional Experience:

Information Systems Consultant, *Alta Plana Corporation* (1997-present):

Specialize in information-systems design and development, and in market analysis, for business-intelligence, text-analytics, and database applications. Additional concentration in analysis and dissemination of demographic, economic, social, and survey statistics.

Text analytics

- Conducting an information-extraction project for a building-materials company. (2008-)
- Performed a text-analytics technology assessment and market analysis, and consulting on commercialization strategy, for ***ITI Life Sciences***. (2006-)
- Advising a consumer-sentiment start-up on product design and market strategy. (2008)
- Advised ***Viziant Corporation*** on market strategy and product positioning. (2008)
- Founding Conference Chair, ***Text Analytics Summit***. (2005-present)
- Write a quarterly column for the ***Clarabridge*** Bridgepoints newsletter. (2007-)
- Text analytics channel expert for the ***Business Intelligence Network*** (2007-)
- Instructor for the ***Data Warehousing Institute***. (2007-)

Software-market consulting

- Wrote a ***Coral8***-sponsored white paper, “*Delivering Real-Time BI with Complex Event Processing*.” (2008)
- Developed an applications-focused text-analytics market study for the ***Business Intelligence Network***. (2007-8).
- Advised ***Pentaho***, an open-source Business Intelligence vendor, on marketing and product-development strategy and wrote a Pentaho-sponsored white paper. (2006)

Business Intelligence, data warehousing, and statistics

- Contributing Editor, ***Intelligent Enterprise magazine*** (2001-); ***Information Week*** contributor; Judge, ***Jolt Awards*** (2006-); Instructor, ***Technology Transfer*** (2005-). Author of numerous articles, presentations, and courses on analytical technologies and their business applications.
- Board of Directors, ***Council of Professional Associations for Federal Statistics (COPAFS)***. (2008- present)
- Providing database-building, data analysis, and dissemination support to ***Datos Research***, Venezuela's leading market-research firm. (2005-)
- Planned near-term improvement and long-term redesign of ***International Monetary Fund*** statistical data-dissemination Web sites. Worked with Fund staff to create and implement a design vision and an implementation strategy that focus on usability, functionality, and capacity of dual fee/free dissemination channels. (2006-7)
- Created a pilot data-dissemination Web site for the ***Statistics of Income*** division of the ***Internal Revenue Service***. (2005-6)
- Conducted a series of Business Intelligence projects for the ***American Institute of Architects***, a Washington DC trade association. (2004-6)

- Assisted the **Bureau of Transportation Statistics** preparing the National Household Travel Survey for CD dissemination. (2003-5)
- Conducted a data warehousing audit and assessment for the Bureau of Human Resources at the **U.S. Department of State**. (2004)
- Trained analysts and consulted on automating statistical database building and tabulation for the **United Kingdom Office for National Statistics**. (2004)
- Created market-research databases and software to automate database building and marketing analyses for **Henry Rak Consulting Partners**. (2002-5)
- Designed and led development of the **U.S. Census Bureau's** Census 2000 tabulation system. Created the systems architecture, implementation plans, schedules, software design, test plans, and documentation. Directed programmers and analysts, working closely with the client and with prime contractor **IBM Global Services**. Consulted on **American FactFinder** Web-site development. (1998-2002)

Other clients

- Other clients have included **Aetna Intellihealth, American Financial Systems, American Greetings, BancTec, the Bureau of Justice Statistics, Carlson companies, Northpoint Communications,** and **WPP Group/RTCdirect**.

Director of Server Technologies, Magnet Interactive Communications (1996-97)

Lead Internet solutions architect, directing technical teams in the creation of major corporate Web sites. Performed technical management, planning, and administrative duties as well as hands-on database programming. Managed the Internet systems/ hosting and quality-assurance teams.

Architect for Web-site related database publishing and data warehousing and line manager of database administration and applications development for clients including **Radisson Hotels, Federal Express, National Geographic, Nissan,** and **Kellogg's**. Worked with IBM/Informix, Oracle, and Microsoft database products; specialized servers from Netscape, Microsoft, and others; and scripting and programming tools.

Computer Systems Officer, International Monetary Fund (1995-96)

Project manager for the selection of new Windows based economic data management software. Reported to a cross-IMF task force of economists and analysts. Oversaw project planning, development of a new software architecture, selection and evaluation of products, prototyping, user demonstrations and reporting, and implementation and migration planning. Coordinated the project work of six staff members.

Prototyped the *Dissemination Standards Bulletin Board* for Web publication of international economic information. Designed the page structure and content-management database. Created a Web-page publishing system, a query-processing interface, and a data-entry application.

Consultant, Organisation for Economic Cooperation and Development (1992-95)

Consulted on computing architecture for management, analysis, and publication of economic and statistical data. Worked with division heads, statisticians, programmers, and organization executives.

Created a distributed architecture integrating desktop tools, analytical applications, and database servers with mainframe legacy systems. Evaluated software and developed proof-of-concept prototypes and performance benchmarks. Designed a data warehouse, multi-dimensional datamarts, and applications programming interfaces. Wrote C-language remote-client middleware for Windows- and Unix-to-mainframe-database communications via TCP/IP sockets; also programmed with SAS. Presented numerous papers and project overviews to management, task forces, and conferences.

Developed OECD Internet strategy. Planned and implemented internal and public Web and mailing-list servers. Coordinated user support and training and created an Internet Economics

Gateway Page for OECD staff. Created mailing lists for distribution of press releases and job-vacancy notices and automated scripts to transfer posted material to the OECD's Web server. Assisted the Publications Service in designing new, Internet-delivered data products.

Project Manager, *Automated Sciences Group, Inc.* (1987-92)

Performed systems analyses, software development, and database system management for the National Highway Traffic Safety Administration and the Federal Aviation Administration. Managed programmers, database administrators, and engineers. Programmed using C, Fortran, Basic, SQL (Ingres), and SAS and 4GL tools with some C++ and PL/I. Developed an analytical user interface and data-entry and data-acquisition programs. Designed and developed a vehicle theft data warehouse and reporting and analysis system using the SAS system,

Engineering Analyst, *Business & Technological Systems, Inc.* (1984-87)

Developed mathematical models and computer software for scientific applications. Primary involvement in computerized simulation of satellite-borne scientific instruments for geodynamics research at NASA's Goddard Space Flight Center and on a National Science Foundation sponsored project. Performed software verification and validation for a gravity model at the Naval Surface Weapons Center. Developed advanced numerical applications and estimation and optimization software.

Systems Analyst, *EG&G Washington Analytical Services Center, Inc.* (1983-84)

Designed, developed, and documented computer software for atmospheric simulation and meteorological studies at the Naval Surface Weapons Center. Also worked on inertial navigation system simulation, operating system utilities, and graphics.

Professional Expertise:

Recognized industry expert and frequent writer and speaker on Business Intelligence, Advanced Analytics, Text Mining, and Visualization and related Information Technology Strategy.

Special expertise in analysis and dissemination of government and marketing statistics.

- Information-systems strategy, architecture, evaluation, and planning.
- Software and data-systems design, development, and project management.
- Management, analysis, and dissemination of demographic, economic, marketing, and survey statistics.

- Relational and multi-dimensional database design and administration.
- Data warehousing, business intelligence, and decision support systems.
- Data profiling, quality, extract-transform-load (ETL), and integration.
- Internet services planning and implementation.

- Programming with Python, Perl, PHP, SQL, C, JavaScript, HTML, XML/XSL/XSLT.
- Analytical software including GATE, SAS, R/Splus, FAME, and AREMOS.
- Database systems including Oracle, Informix, Ingres, Microsoft SQL Server, Microsoft Access, and MySQL.
- Operating systems including Unix, Linux, MacOS, Microsoft Windows, and OpenVMS.