

*I am a deep generalist, with experience that spans the range from scientific parallel clusters to enterprise resource planning systems, efficient hypermedia database algorithms to highly usable interactive applications, compelling business plans to aesthetic graphic design.*

*I'm currently concentrating on distributed systems for knowledge management and collaboration.*

*I can provide due diligence and strategic analysis of an investment, acquisition, or partnership;*

*establish effective project management practices and robust architectural foundations;*

*and rapidly create innovative software solutions to complex problems.*

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**PRESIDENT****IECOMMERCE, BELLEVUE**

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Consultant to a biomedical nanotechnology company in the Bay Area: Developed a three-dimensional molecular modeling workbench environment in Java with an extensible architecture, distributed data store, and scripting capabilities. Defined corporate information security policies and procedures. Assisted with business plan development, financial modeling, presentations, market research, regulatory analysis, and video production for equity financing. *December 2000-Present.*

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**CHIEF TECHNOLOGY OFFICER****EVERYTHINGOFFICE, SAN FRANCISCO**

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Created a web-based procurement system for small business, with seamlessly integrated mobile sales force management, automated marketing, order processing, customer relationship management, and financial reporting. Built outstanding teams for development, quality assurance, and operations, providing sound processes and strong leadership to rapidly respond to business needs. Combined proprietary technology with leading-edge commercial infrastructure using Java, Oracle Financials, XML, and EDI to implement a scalable, reliable system on a tight schedule and a lean budget. Worked closely with sales, marketing, and customer service, as well as strategic partners and investors, to optimize technical and business strategy for the company. *October 1997-November 2000.*

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**VP OF ENGINEERING & SERVER OPERATIONS****JANGO, SEATTLE**

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Managed the development of a unique Internet shopping assistant product from an initial prototype to a shipping product, winning two awards for innovation while in beta. Attracted talented, experienced developers to the team; hired an outstanding QA manager and built a strong QA team; hired a manager of server operations, and oversaw the deployment of a high availability, high performance server system. Responsible for managing the development, quality assurance, and server operations departments, developing & monitoring engineering plans & schedules, and interacting with marketing, sales & customer support departments, and external strategic partners & industry standards groups. *November 1996-September 1997.*

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**DIRECTOR OF ENGINEERING****NETMANAGE, BELLEVUE**

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Managed the development process for the award-winning ECCO Personal Information Manager product line. Released the new ECCO Simplicity product in October '93, and then released the network enabled 2.0 version in April '94, which included significant additional functionality such as group scheduling, file synchronization, and access control, along with many usability enhancements and customer requests. Released version 3.0 in June '95, with significant improvements in usability and visual appeal. Responsible for managing the development team, developing engineering plans, setting and monitoring development schedules, and interacting with internal quality assurance, marketing, sales, & customer support departments, and external technology partners & industry standards groups. *July 1993-October 1996.*

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**MANAGER OF DEVELOPMENT****MEMEX INFORMATION SYSTEMS, PALO ALTO**

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After the acquisition of Xanadu Operating Company, responsible for integrating the hypermedia server technology into a vertical product for the property/casualty insurance industry: building and managing an engineering team of ex-Xanadu engineers, and a microkernel OS development team; project scheduling, resource allocation, personnel management, and budgeting; writing product descriptions, schedules, and financial projections for the business plan and marketing literature; licensing and integrating technology; liaison with customers, insurance industry, and investors. *February 1993-June 1993.*

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**CHIEF ARCHITECT****XANADU OPERATING COMPANY, LOS ALTOS**

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As a member of the Chief Architect Team, responsible for the company's technical strategy, and involved in all aspects of product development, including requirements analysis, product specification, documentation, scheduling, design, implementation, testing, and optimization. The main product is a hypermedia server with fine-grained linking, history tracking, variant management, access control, link filtering, flexible indexing, and scalability. Other components include a Microsoft Windows collaborative information management application, a C++ client library with asynchronous networking, a persistent object store, and a hybrid Smalltalk/C++ development environment. *August 1989-January 1993.*

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# RAVI PANDYA

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## CONSULTANT

CEMCORP, TORONTO

Identified requirements for an educational hypermedia authoring system; conducted detailed analysis of potential systems on the basis of current features, such as ease of use and capabilities, along with long-term considerations of software development, maintenance, and portability; recommended a particular product, along with a strategy for developing a relationship with the software developer and integrating the product into the client's hardware product line. *May-July 1989.*

## MANAGER OF SOFTWARE ENGINEERING

HYPERCUBE, WATERLOO

Responsible for the development of HyperChem, a molecular modeling system with: a simple and consistent interface for creating and editing molecular structures in Microsoft Windows; a model builder to infer three-dimensional structure from a list of atoms and bonds, using knowledge based heuristics and constraint propagation; a high-performance cluster of Inmos Transputers; a high-performance double-buffered display with a microcoded graphics coprocessor. *May 1988-April 1989.*

## CONSULTANT

INTERACTIVE IMAGE TECHNOLOGIES, TORONTO

Developed and optimized high-performance text and graphics routines in assembly language for an in-house windowing system; achieved a performance improvement of up to a factor of ten. *January-February 1988.*

## CONSULTANT

EDUCATIONAL SOFTWARE PRODUCTS, TORONTO

Responsible for the analysis, design, development and implementation of an object-oriented user interface management system. Applied it to the implementation of a text and graphics document editor, with an integrated linguistic analysis system for use in teaching English usage, grammar, and composition. *November 1985-May 1987.*

## RESEARCH INTERN

XEROX PALO ALTO RESEARCH CENTER, PALO ALTO

Working with Smalltalk-80 in the System Concepts Laboratory, developed a prototype Object Server to manage shared access to complex, active, object-oriented databases over an Ethernet network; worked on a graphical programming environment integrating inheritance, logical programming, and constraint satisfaction techniques. *May-August 1984 & 1985.*

## PROGRAMMER

HUMAN COMPUTING RESOURCES, TORONTO

Worked on an accounting package using a relational database; assisted in porting UNIX kernel code. *May-August 1983.*

## PROGRAMMER

BELL-NORTHERN RESEARCH, OTTAWA

Worked on a hypertext system with database-like capabilities; developed a text windowing system; prototyped a bar code and voice synthesizer based user interface; implemented a high-speed DES algorithm in assembly. *May-August 1981 & 1982.*

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## BACKGROUND

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### B.SC. MATHEMATICS SPECIALIST, TRINITY COLLEGE, UNIVERSITY OF TORONTO

Studies included: abstract algebra, cognitive neurology, complex analysis, computability and complexity, differential equations, differential geometry, ethics, fine art history, history and philosophy of science, Japanese, linguistics, language acquisition, measure theory, non-linear optimization, operations research, probability and statistics, quantum mechanics. *September 1984-April 1985; September 1987-April 1988; part time May 1988-April 1989.*

### GEORGE BROWN COLLEGE SCHOOL OF BALLET

Full-time, intensive, pre-professional training in ballet, including pas de deux, performance, modern, jazz, ballet, and Spanish dance. *September 1986-August 1987.*

### JAPAN

Traveling throughout the country, studying Japanese, teaching English, visiting academic and government computer research facilities, including Tokyo University and the Fifth Generation research laboratories. *October 1983-March 1984.*

### MATHEMATICS DEPARTMENT, UNIVERSITY OF WATERLOO

Studied algebra, calculus, computer science, English literature, history, physics, semantics, visual language; supported by a full scholarship for placing in the top 20 students in Canada on the Descartes mathematics competition; assisted Dr. Neil Ostlund in multi-processor research for credit. *September 1982-April 1983.*