

Dudley Irish

1166 2nd Avenue, Salt Lake City, Utah 84103
(801) 534-0533
dirish@arsmagna.com

Highlights

- Master of Business Administration and 20 years experience with all aspects of information technology.
- Management experience, both in operations and in team oriented development environments.
- Distributed/multi-threaded and object oriented programming experience on many platforms including Unix, VMS, and Microsoft Windows for both application and systems programming in C, C++, and Java. Extensive experience with CORBA and similar technologies.
- In depth knowledge and experience with Oracle 8i, 9i, 10g, 11g.
- In depth knowledge of Web based deployment platforms including Oracle Portal, J2EE, JBOSS, Apache, Jakarta/Tomcat, WebLogic, WebSphere and others. Familiarity with Perl/CGI, JSP and Java Servlet implementations.
- Recent experience with “cloud” technologies including Ceph and OpenStack leading to a patent, *Client-side encryption in a deduplication backup system* [US Patent 9,372,998].

Work History

Storagecraft Technology Inc

Nov 2012 - present

Data transfer and management in a distributed environment using Ceph, OpenStack and other “cloud” technologies. As senior software engineer I am driving the adoption of Test Driven Development and other best practices. This work resulted in a patent, *Client-side encryption in a deduplication backup system* [US Patent 9,372,998].

T.D. Williamson *Mar 2009 - Nov 2012*
Worked on a data visualization tool. As senior software engineer, I drove the adoption of Test Driven Development and other best practices.

AccessData/MRI contract then hired Oct 2006 - Mar 2009
Primarily responsible for database access layer and data model using Oracle. Worked with other developers to increase their knowledge and abilities. Primarily responsible for distributed, multi-threaded analysis tool that loaded the database.

Independent Consultant Aug 2004 – Nov 2005
Developed distributed call-center solution that provides access for the deaf via TDD in addition to normal telephone, IM, and Web interfaces.

Senior Security Engineer Aug 2003 – Aug 2004 Distributed identity management design and implementation. Used LDAP, Novell Identity Manager, Tivoli Identity Manager, Netegrity SiteMinder and other identity management standards, tools and applications.

Independent Consultant Sept 2001 – Sept 2003
During this period I worked on a number of Oracle Portal projects. I resolved a serious security related configuration problem for TRW and helped them on a number of other issues. I prepared and presented a seminar on how to manage a successful Portal project. I installed and configured Portal for several clients.

Director of Advanced Technology Aug 2000 – Sept 2001
Director of the eleven member advanced technology team at Talk2 Technology. My team was responsible for maintaining and extending the distributed middle-ware (ViPrNET) that the company's products were based on and for investigating, researching and prototyping new technologies that would augment the companies product line. I implemented the extreme programming development methodology in a radically co-located environment.

I designed and implemented a high-speed, portable, shared memory IPC library for the middle-ware. I designed an extension that allowed the C++ based middle-ware to manage components that were implemented in Java. I designed a distributed, fault-tolerant load balancing

mechanism. I designed a distributed XML based configuration system. I supervised all implementation, testing and releases. I was responsible for all design, as well as documenting the design and implementation.

Members of the team, as assigned by me, researched and prototyped various technologies. We prototyped a VOIP extension for the middle-ware based on RTP and SIP. We investigated the technical and business feasibility of employing compact PCI systems. We prototyped extensions to use the latest TELCO equipment from HP. I assisted the CTO in the preparation of documentation for the OMG. This included reviewing and summarizing all relevant OMG standards efforts, in drafting a RFC for the TELECOM Working Group, and in responding to relevant RFCs.

Independent Consultant

Feb 2000 – Aug 2000

During this period I was engaged on a number of small projects. I installed and configured Oracle's Spatial and helped the company incorporate it into their application. I worked on extending an existing smart card based customer loyalty application. I consulted with Talk2 Technology on porting ViPrNET to Unix.

Managing Consultant

Jul 1999 – Feb 2000

After successfully proposing a project to MyJobSearch.com to migrate their web content from a static HTML implementation to a dynamic database driven architecture, I was the managing consultant on the project. I supervised four other consultants and three employees who made up the implementation team. I designed the data model and did the primary implementation of the new site in Perl with Netscape's Web server. I implemented a collection of scripts to scrape the existing site and insert it into the database. I supervised the implementation of the maintenance application and the database server.

I also designed a system to generate complete websites that mirrored the company's content and which could be easily updated. This system was implemented in C++ and used XML based templates to support a high degree of customization. This design exploited the database and server-side includes on the client company's server to provide a high degree of customization while keeping the update process simple.

Independent Consultant

Apr 1999 – Jul 1999

I was retained by TruTek to develop a multi-vendor data movement utility. This “data pump” is designed to move data efficiently between databases from different vendors. It relies on shared memory based IPC to move massive amounts of data efficiently. The system is designed to operate at the maximum throughput of the source and destination database servers and to be able to completely saturate the network connections. This is achieved by using a multi-process implementation that supports multiple readers and writers. This allows the system to overlap I/O’s on the servers and to maintain an extremely high aggregate throughput. I also implemented a Web-based management console for the system.

Independent Consultant

Dec 1998 – Apr 1999

My company, Egenic, was retained by Franklin-Covey to implement a business-to-business suite of applications. Our team was composed of five to seven people, depending on the phase of the project. The suite included an on-line catalog of Franklin’s products, a shopping cart, and integration with the legacy order entry process. I designed and implemented a security protocol to allow users to be validated based on the network from which they were accessing the catalog. We designed and implemented a registration system. We implemented a number of personal productivity applications.

Sabbatical

Aug 1998 – Dec 1998

I took a four month break to live in England. During this time I started work on the Software Manufacturing Process, an approach to software development that I continue to develop.

Managing Consultant

Nov 1997 – Aug 1998

I was retained by Franklin-Covey to lead a team of five developers on a project to port Franklin’s legacy distribution center system from Ingres/VMS to Oracle 8/Digital Unix. I designed and implemented a program to perform the bulk of the translation of the C source code from Ingres/VMS to Oracle/Digital Unix. I reverse engineered a subset of a library to support this automatic conversion. I devised and validated the testing process. I supervised the team, and designed and managed the project plan. Our team was part of a team of over one hundred consultants and employees working on Franklin’s business

transformation project. I was responsible for coordinating our efforts with the rest of the business transformation team.

Vice-President of Technology Feb 1997 – Sept 1997

First USA Financial Services (now PaymentTech) is a credit card issuing bank specializing in purchasing cards for corporate clients. I was responsible for identifying information technology strategies that would maximize the value to the customers. I worked with the risk assessors to stream-line the credit evaluation by automating the credit reporting process. I worked with the implementation team to stream-line the credit card issuing process. I worked with the operations/customer service department to resolve problems with EDS who was our transaction processor. I worked with EDS to resolve problems with their reporting system and to drive them toward technologies that would help us better serve our customers.

Senior Regional Engineer Aug 1994 – Dec 1996

While working for Kodak Imaging Services, I was the senior regional engineer for the western region and I had primary responsibility for the HBA site. At the HBA site I directed a team of four computer operators who were responsible for the day-to-day processing. I assisted in resolved support and maintenance issues for the printers and computer systems. I designed and implemented a custom printing system that supported over 40 individual projects and generated millions of pages per year. I designed a simple language to describe the format of the input file and the layout of the generated book. The generation software used this project file, the customer supplied data file, and static data in the form of encapsulated Postscript to generate the book. The system supported both Postscript and AFP and could format the books for a number of different binding options. This system replaced an existing generation program. The legacy system took six months to implement each project. My replacement system was able to produce projects of the same complexity usually in less than a week. I also designed and implemented a distributed production control system that was used by the printer operators. This system controlled the execution of the generation system and directed the output to printers depending on the printers capabilities and the production schedule.

Senior Developer June 1993 – July 1994

I was recruited by Fields Software Group (now Park City Group) to work on their internal tools team. This team was responsible for providing a portability layer that was used by the rest of the company in its products. I was also charged with pushing the developers to use more professional software development methods. I worked with the developers, technical writers and testing people to adopt a more mature process using the capability maturity model as the framework for this effort. A number of standards and training programs that I advocated were adopted by the company.

Systems Adviser Aug 1992 – May 1993

I joined a new network design practice at Computer Task Group. This practice focused on the design and implementation of intra-networks for medium to large corporations. My specific responsibilities were drafting responses to RFPs and designing the high level network architecture. I also participated in the sales process providing technical support to the sales force. I assisted in implementation as necessary, including configuring routers, installing software, and providing customer training.

Software Engineer Nov 1991 – April 1992

I worked as system administrator at the Center for Engineering Design in the College of Engineering at the University of Utah. Performed system administration on a heterogeneous network of Unix and VMS systems. I also was project lead on the real-time control software for the Utah Arm. This work was done in a combination of C and assembly on Unix and VxWorks.

Manager of Computer Operations Oct 1989 – Oct 1991

I was Manager of Computer Operations at the Center for Scientific Computing in the Department of Mathematics at the University of Utah. I supervised a team of six who supported the computing requirements of the Department of Mathematics. I had day-to-day budget responsibility and did the annual budget for the center. I also performed system management for the VMS systems. I designed and implemented a system to record animations onto a video tape system. I designed and implemented a phase plotting program based on LSODE.

I provided introductory training on the computer systems to undergraduate students. I supervised and assisted in all aspects of system administration all the systems in the department. I participated in various institution-wide committees on networking, system and security administration, and service contract management.

Network Specialist

Jul 1984 – Oct 1989

While at Evans and Sutherland, I worked as a VMS systems programmer, VMS system manager, network administrator, and Unix administrator. I designed and implemented a distributed backup system for the VMS systems. I implemented replacements for various VMS utilities with custom extensions. I supervised the operators and assisted them with problem resolution. I helped to design the corporate network and worked to get appropriate routing and monitoring in place.

Independent Consultant

Nov 1983 – Jul 1984

I worked on a number of projects for a small startup company, IEV. This included porting a Forth system from CP/M to MS/DOS. This system was implemented in a combination of 8080 assembly and Forth. I reimplemented it in 8086 assembly and modified the Forth as required. I also wrote an MS/DOS console device driver for the company's graphics device product in 8086 assembly. I helped with the maintenance of the software for that graphics device which was based on the 68000 and written in assembly.

Software Engineer

June 1983 - Nov 1983

I worked at Hewlett-Packard porting a design procedural language (DPL) from Lisp Machine LISP to Portable Standard LISP. The DPL was used to design integrated circuits. I worked on general portability issues and on visualization tools. I also consulted with other groups within Hewlett-Packard on computer aided IC design.

Education

Masters of Electrical and Computer Engineering currently enrolled;

Masters of Business Administration University of Utah, 1995;

B.S. in Computer Science University of Utah, 1978-1981, Graduated *cum laude*; and,

Graduate level course work (35 hours) in Computer Science University of Utah, 1984.