
John Dunn

Principal Consultant,
TNS Software Inc.

jfdunn@tns-soft.com

Profile

Accomplished technology executive and IT project consultant with over 25 years technical experience: 25+ years programming, technical project management, and personnel management; 15 years hands-on technical lead; and over 15 years IT consulting. Proven results in: Technical product delivery and life-cycle methodology, client relationships, business development and mentoring. Highly motivated and energetic, with excellent communication skills. Has assumed progressive responsibilities from programmer to executive, and has executed multi-million dollar, high-profile, Internet-based projects. Extensive experience in providing technology insight and direction, with special emphasis in the areas of application and data architecture, network design and implementation, and application implementation and security standards.

Skills Summary

- Highly proficient in Java / J2EE development, Tuxedo development, client/server development, 3-tier architecture design and development, intra / internet migration, database design using many development environments and languages.
- Thorough familiarity with ORACLE RDBMS from version 5 to 10 in Unix and Windows environments, including 10 years of extensive development on ORACLE 7 to 10 and Database Administration experience with all releases.
- Extensive Unix experience, including System Administration, using Solaris, HP/UX and AIX.
- Extremely strong programming and analysis skills in Java, C, C++, HTML, SQL, PL/SQL, JavaScript, Perl, XML and CSS including multi-threaded, multi-process and multi-tier design and implementation.
- Excellent written and oral communications skills.
- Strong knowledge of the Ontario Electricity market with extensive hands-on experience in XML-based EBT processing.
- Strong knowledge of financial applications and trading systems, including Mutual Fund, Fixed Income and Credit Risk management systems.
- Skilled at working with management and at motivating and managing staff.
- Thoroughly familiar with full project life-cycle application development and methodologies.

Programming Experience

Mr. Dunn has a wide, varied and comprehensive knowledge of a number of programming languages, database and operating systems. These include:

- Experience with WebSphere. WebLogic. IPlanet (Sun One) and JRun

application servers (5+ Years)

- Strong Java programming skills including JSP, J2EE/EJB, JNI, JCA and JDBC (5+ years) with the delivery of both Web-based J2EE applications and complex stand-alone JDBC applications.
- Expert understanding of Oracle databases from design to implementation (18+ years) including PL/SQL (12+ years), using all aspects of packages, functions and procedures.
- Unix configuration, administration and operation skills (18+ years) including shell programming, system installation, configuration, tuning and hardening, using Solaris 2.5-2.9, HP/UX 10-11. Some non-production Linux experience.
- C programming (19+ years) with experience in network programming, shared memory and IPC and multi-threaded / multi-process design and implementation. Projects have been as large as 500K SLOC's. Much of the C programming was performed in conjunction with embedded SQL and the Tuxedo API, for the implementation of large scale transaction processing systems in the financial sector.
- C++ programming (12+ years) although fewer projects than C.
- Extensive Tuxedo ATMI programming experience in C and has built a number of large transactional systems for the financial sector.

Work Experience
Nov 2003 – Sep
2006

Under contract to EPCOR Merchant and Capital acting as Technical Lead for their EBT systems in the Ontario Retail Electricity market and responsible for all aspects of systems operation, development and implementation including:

- Provided end-user support for Desktop PC's, local servers and printers in the EPCOR Ontario office, including hardware / software installation and configuration
- Maintenance and operation of the EPCOR CIS (CDMS), written in VB6 / COM and PL/SQL, including required upgrades based upon EBT Schema revisions and changes required by new business functions.
- Project lead for migrating the data center / call centre from Toronto to Edmonton
- The design, development and implementation of a complex billing solution interfaced into the existing customer CIS to support C&I contracts. Implemented in Java/J2EE using JRun and PL/SQL.
- The design, development and implementation of a load forecasting and revenue accrual engine that analyzed all Ontario markets (Mass / Mid / C&I) and provided timely and accurate (within 1%) load and revenue forecasting. Implemented in Java/JDBC and PL/SQL.
- The design and development of various analytic tools used for the analysis and repair of EBT PIPE documents. Implemented in Java/JDBC and PL/SQL using both DOM and SAX document parsers.

March 2003 – May
2003

Under contract to Hydro One Networks, Performed a Server Consolidation Assessment for their Unix production servers including inventorying existing hardware / software, examining system utilization and recommending future actions to take advantage of HP

work management and partitioning options.

**December 2002 –
February 2003**

Under contract to OMERS, migrated an MS/Access based workflow application to a J2EE (JRun/Oracle/Windows 2000 Server) based environment under a fixed time / fixed priced contract. The migration included data, forms and reports. The application was delivered ahead of schedule.

**July 2002 –
December 2002**

Under contract to Charity Broker acting as Technical Architect and lead programmer for the auction system and responsible for all aspects of the system design, development and implementation including:

- Business process definition.
- Database Model, both logical and physical, to support the business processes and external interface components.
- Hardware / Software installation and administration including Solaris 2.8, Oracle 8.x and Macromedia JRun 4 Application server.
- Definition and implementation of all HTML, JSP, EJB, XML and CSS components
- Design and programming of the system prototype to be delivered in January 2003.

**February 2002 –
June 2002**

Under contract to Hydro One to provide technical leadership and programming support for their Electronic Business Transaction (EBT) system. The system manages EBT transactions such as enrollments, requests for meter data, billing data, and payment history which are processed electronically via the Ontario EBT Clearinghouse (Hub). Working within the "Point to Point" team, responsible for:

- The planning, coding, testing and production implementation of the "Point to Point software" component, using WebLogic / Oracle.
- The definition, programming and implementation of logging and automated failover capabilities for the "Point to Point" software, under HP/UX
- The design and implementation of a JSP based printing and reporting system for usage and billing information implemented using WebLogic / Oracle.

**February 2000 –
July 2002**

Under contract to the Ontario Municipal Employees Retirement Society (OMERS) acting as Senior Technical Architect for their IT/e-Business initiatives. Projects in which I was actively involved included:

- The development of an e-Business Strategy which defined an implementation blueprint and prioritized implementation plan for their e-Business initiatives.
- The migration of their workstations from a Windows 95 environment to a Windows 2000 environment, including application rationalization and the creation of standard workstation configurations.
- The segmentation of their LAN/WAN environment into ACL protected VLAN's and the implementation of standard user roles to appropriately restrict access to applications and servers.
- The implementation of a practical security framework including standards and procedures for system / data access, server, router, firewall configurations and general security guidelines.
- The implementation of a secure remote e-mail solution using RSA SecureID and Borderware's WebMail server.
- Their Intranet, which was developed in conjunction with IBM Global Services and which was the first e-Business initiative implemented within the organization.

- September 1998 – January 2000** Under contract to the Ontario Municipal Employees Retirement Society (OMERS). as Technical Architect and Technical Acceptor for an in-house developed membership management system. The system, known internally as MSS, was a client/server system written using PowerBuilder and Oracle 8.x in an HP/UX environment serving over 200 users. Duties included:
- Establishing and documenting implementation standards, where no appropriate standard had been identified.
 - Reviewing all technical areas of the implementation and ensuring compliance with their standards, including database design, programming standards and operational standards.
- February 1998 – June 1998** Under contract to Fidelity (Canada) to review, administer and enhance an in-house developed client/server application (IRIS) operating in an RS/6000 / Windows 95 / Oracle environment. Duties included:
- Identification of implementation flaws and assistance in application tuning and performance remediation.
 - Documentation of appropriate programming and system management standards.
- August 1996 – February 1998** Under contract to the Bank of Montreal as Technical Architect for a Credit Risk Management system. The first phase of the system was the development of a workflow management system to allow Credit Officers to manage and approve trade excesses. This system went into production in October 1997 and was implemented using Tuxedo, Netscape and Sybase System 11. There are approximately 500 worldwide users who access the system from Windows, SunOS and Solaris clients using Netscape Browsers. Designed and implemented the data model in Sybase System 11, developed the Tuxedo services using Embedded SQL and Transact SQL and designed and developed the dynamic HTML forms. At the same time, worked with the analysis team to define the data model and specifications for the next phase of development.
- The second phase of the system was to develop a Limit Monitoring and Authorization system using Tuxedo, Sybase System 11 and a Neuron Data Open Elements GUI. This phase of the project was cancelled due to changing business priorities.
- May 1993 – August 1996** Under contract to the Bank of Nova Scotia acting as the Technical Architect and lead developer for a fixed income trading system (FIT) which was constructed using Tuxedo, SqlWindows and Oracle. The system supports over 1200 users in Canada and was developed by a team of 4 in under 12 months.
- Duties included:
- Developed and documented security and programming standards, GUI standards and interface standards.
 - Created a standard GUI interface for Tuxedo services in SqlWindows and created a standard service definition for Tuxedo services using embedded Sql and C. These standards were replicated as required for all service and interface components of the system.
 - Additionally, designed and developed the system interfaces to a real-time TIBCO data feed, a DSI CMTS trading interface, and a real-time trade reporting sub-system.
 - Following the development of the FIT project, developed an Intranet Netscape / Tuxedo interface for use in external broker trading.
 - Developed a data warehouse repository and interface to ADP. (the back office

system) and integrated the file feeds into a normalized Oracle database for use in a their WRAP management System.

- Developed a real-time RPC-based interface to a Harris PIMA mutual funds trading system, and an Oracle based mutual funds reporting sub-system.

**December 1990 –
May 1993**

Principal Consultant, Interleaf Canada. Worked on several consulting engagements for Interleaf Canada, for clients such as Northern Telecom, Bombardier, Hughes Aircraft, the Department of National Defense and Ontario Hydro. Provided custom implementation expertise for Interleaf's products using Interleaf's OO Lisp, Oracle, C and C++. Also provided consulting advice to clients in the areas of Database Modeling, Application Design, System Security, Networking and Unix system administration.

Assisted the Interleaf engineering group in porting the RDM product (Relational Document Manager) to MS/Windows and extending the integration between RDM and other Windows applications.

Principal engagement was a two-year period as a Technical Architect and lead programmer for the development of a 400 user client / server suite of applications using Oracle and SqlWindows for Ontario Hydro. The system was designed to provide complete safety, equipment and project management services for Bruce Nuclear retubing projects within Ontario Hydro. This project was cancelled in May of 1993 due to changing business priorities.

**August 1987 –
December 1990**

Corporate Consultant, Oracle Canada. Engaged with many large Canadian Corporations including the Toronto Stock Exchange, Proctor and Gamble, Northern Telecom and Domtar. Principal role was as a Technical Architect and / or Team Leader for Oracle consulting teams. Provided consulting expertise in all aspects related to applications architecture including performance tuning, benchmarking, database modeling and design, system implementation and mentoring.

Primarily, the development environments were Unix based (Sun, Sequent, Pyramid, HP), but some engagements were for systems development using VMS, VM, AOS/VS and Windows.

These engagements required the use of most of Oracle's tools and facilities, including CASE and CASE Method, Pro*C, OCI, PL/SQL, Sql*Loader, Sql*Plus, Sql*Forms, and Sql*Reportwriter.

**January 1979 –
August 1987**

Programmer / Analyst, CAPAC Inc. During my employment with CAPAC, I was responsible for the maintenance and development of online and batch systems. Initially, the environment utilized a Sperry mainframe and TP monitor for online operations. In 1984, I converted all in-house systems from the Sperry mainframe to a Data General MV10000.

The entire conversion took just under 18 months and required the conversion and testing of over 300 source modules written in COBOL, RPG, and 370 Assembler, as well as the data conversion and validation of all online and historical data.

References

Upon Request