

TOM OLESON

SENIOR SOFTWARE ENGINEER



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<https://tom-oleson.github.io/>

SKILLS

LANGUAGES

C/C++, Java, Python,
HTML/CSS, XML, JavaScript

OPERATING SYSTEMS

Linux/RHEL, Windows,
Solaris, Unix, AIX, DOS, OS/2

MIDDLEWARE

Steel-Belted RADIUS,
FreeRADIUS, JBoss,
Apache/Tomcat, Weblogic,
WebSphere

FRAMEWORKS & APIs

POSIX Threads, Sockets, STL,
ODBC/JDBC, **OCCI**, AWT, J2EE,
JDOM, XPP, CMF, SAX, Junit,
Struts, log4j, CPPUnit, **REST**

BACKEND

Oracle, Microsoft SQL Server,
IBM DB/2, Sybase, **MySQL**,
Postgres, Red Brick, dBASE,
FoxPro

OVERVIEW

Accomplished senior level software engineer with experience developing **enterprise level** applications in a variety of environments. Successfully **led small teams** of three or more developers through full life-cycle projects. Continuously **learning new technology stacks**.

EXPERIENCE

ADVISORY SOFTWARE ENGINEER

Syniverse, Tampa Florida / April 2008 – November 2018

- Applications produced revenue of **20+ million annually**.
- On **Solaris**, developed **high-volume** Mobile Data Roaming and WiFi plugins on frontend Steel-Belted **RADIUS** servers. On **Linux**, developed backend processing applications interfaced to **AMQP** message brokers and **Oracle** databases.
- Implemented code for **POSIX Threads, TCP Sockets/UDP Datagrams**, AMQP, JDBC, OCCI and STL.
- Coded in **C++, Java**, SQL, Python and XML.
- Principal developer of **Common Messaging Framework (CMF)** enabling **code reuse** and **greatly reducing the effort required** to implement new product features. Principal developer of a **WiFi Rules Engine** which **greatly reduced the effort required** to implement new WiFi venues.
- Championed **best practices** that resulted in the adoption of **unit testing** (JUnit/CPPUnit) and **continuous integration** builds (Jenkins).
- Worked with teams to **define requirements and project scope** resulting in **effective implementation and deliveries**.

PRINCIPLE LEAD DEVELOPER

Nielsen Media Research, Oldsmar, Florida / July 2005 – June 2008

- Team's **lead developer**. Member of the **Architecture group**.
- On **Linux**, developed backend data processing and formatted output of All Minute Respondent Level Data (AMRLD) for third party processors. Data stored in Red Brick, **Sybase** and **MySQL**.
- Implemented code for JavaBeans, Servlets and JDBC to run on CLI and JBOSS with continuous integration builds.
- Coded in **Java, SQL** and XML.

SENIOR DEVELOPER (VERIZON CONTRACT)

Datalinx Corporation, Tampa, FL / November 2004 – April 2005

- Senior level developer working on the Verizon eCO/eCOT next-generation, work force management system **enhancing the efficiency** of technicians and their supervisors working in the Central Office and Operations Centers.
- Coded **performance enhancements** for work order pagination and viewing and **enhanced logging**, utilizing Enterprise JavaBeans, Servlets, JSP, XML, HTML, XSL/XSLT, CSS, JavaScript and JDBC providing support for DB/2 on the backend.

EDUCATION

Microsoft Course 540 –
Supporting Microsoft Windows 95
/ 1996

Microsoft Course 505 –
Supporting Microsoft Windows NT
3.51 / 1996

Microsoft Course 659 –
Supporting Microsoft Windows NT
Server / 1996

Microsoft Course 472 -
Internetworking Microsoft TCP/IP
on Windows NT 3.51 / 1996

Microsoft Course 730 -
Fundamentals of Microsoft
Exchange Server / 1996

Client/Server Computing
Course / 1994

TCP/IP Internetworking
Course / 1994

Advanced Airborne Electronic
Warfare School / 1983

Airborne Electronic
Warfare School / 1983

Non-Acoustic ASW
Flight School / 1982

Antisubmarine
Warfare School / 1982

Aviation Fundamentals
School / 1981

Naval Aircrew Candidate
School / 1981

**Bayshore Methodist
High School**, Tampa, FL / 1980

SOFTWARE ENGINEER / ARCHITECT

Skyway Software, Inc., Tampa, FL / November 2001 – October 2004

- Development work on a enterprise level business process management application builder.
- Architected and coded the **Java** code-generator for runtime process logic and deployment functionality.
- Implemented code for Enterprise JavaBeans, XPP, Servlets, and JDBC on JBOSS and Weblogic providing support for **Oracle**, **MySQL**, Microsoft SQL Server and DB/2 on the backend.
- Coded in **Java**, **SQL**, **Velocity**, HTML, CSS and JavaScript.
- Organized teams and **facilitated improvements** to our development process.
- Worked with business analyst, product management and marketing to define business rules, **requirements and project scope** resulting in **effective implementation and deliveries**.

SENIOR DEVELOPER (AT&T CONTRACT)

Sapphire Technologies, Tampa, FL / July 2001 – October 2001

- Development work on a SCORM 1.1 compliant **Learning Management System** (LMS) providing the delivery of **on-line training** to AT&T, AT&T Partners, AT&T Associates and customers.
- Coded new network accessible features utilizing **Java**, Enterprise JavaBeans, Servlets, JSP, XML, HTML, CSS, Struts, JavaScript, XYZ Find and JDBC providing support for **Oracle** on the backend.

LEAD SOFTWARE ENGINEER

TRADEX and Ariba, Inc., Tampa, FL / February 1999 – May 2001

- Team lead in four major releases of B2B Marketplace software running on Windows NT and **Solaris**.
- Coded new features utilizing Enterprise JavaBeans, Servlets, Applets, JSP, XML, HTML, JMS, Sockets and JDBC providing support for Oracle, Sybase, Microsoft SQL Server and DB2 on the backend. Coded business logic for XML/cXML and EJB integration of Ariba Marketplace with Ariba Dynamic Trade (online auctions), Ariba Buyer and Ariba Commerce Services Network (ACSN).
- **Organized teams** and **facilitated improvements** to our development process.
- Work with business analysts, product management, project management and marketing to define business rules, application requirements and project scope.
- Provided **mentoring and knowledge transfer** to increase team efficiency.

LEAD SOFTWARE DEVELOPER

IBM, Tampa, FL / 1998 – 1999

- Lead developer for IBM **Web Hosting / Infrastructure & Database Support** team responsible for the design and development of the eBusiness client/server configuration database management applications running on Windows NT and AIX.
- Coded implementation of database management systems for order fulfillment and server farm configuration utilizing IBM VisualAge for **Java**, IBM DB2 and Lotus Domino.
- Designed and coded a new n-tier client/server application framework based on **business objects** with object-relational mapping (**ORM**), a thin-client using **RMI** and server components utilizing JDBC for access to a DB/2 database.
- Coded implementation of a network accessible batch load facility for server farm configuration data using HTML, a client applet and RMI.
- **Organized teams** and **facilitated improvements** to our development process.
- Provided **mentoring and knowledge transfer** which increased team efficiency.

SOFTWARE ENGINEER

UTILITY PARTNERS, INC., Tampa, FL / 1998

- Development of Mobile Field Systems RF, LAN and Circuit Switched Cellular communications layer (APPCOM) using Visual C++ which enabled Visual Basic applications running on mobile Windows 3.1/95 work-slate computers to access the configured network.
- Coded processing and event handling logic in **C++** for the APPCOM communications driver. Cleaned up the code and closed a large number of existing software defects.

LEAD SOFTWARE ENGINEER

JOHN H. HARLAND, Tampa, FL / 1997 - 1998

- Lead developer responsible for the maintenance of proprietary financial marketing database applications written in the **C** and **C++** language using C Set for OS/2 and Visual C++ for Windows NT.
- Coded a **Java** AWT based tool for the creation and maintenance of mainframe parameters. Components provided wizards for parameter parsing, modification and persistence. The tool greatly reduced the effort required to configure mainframe processing jobs.
- Provided **mentoring and knowledge transfer** to increase team efficiency.
- Facilitated improvements to our development process.

SENIOR COMPUTER PROGRAMMER/ANALYST

UNIVERSITY OF SOUTH FLORIDA, Parking Services and Office of Research, Tampa, FL (1986 - 1997)

- Sr. Computer Programmer/Analyst in Parking Services and then the Office of Research.
- Local Area Network Administrator for both Parking Services and then the Office of Research (NetWare, Windows NT Server, Exchange Server).
- Setup, installation and configuration of servers, workstations and hardware supporting over eighty users. **Supervised** a team of **computer support specialists**. Provided staff operational training on automated systems.
- Design and technical specifications for use in software construction.
- Design and coded a citation system on hand-held touch screen computers for use by parking patrol officers. Software was developed in a DOS environment using Borland **C++** and the hand-held BIOS.
- Designed and coded a vehicle registration, decal sales and fines collection system providing point-of-sale, optical mark reader data entry and integration to the hand-held citation system running on DOS and developed using Borland C++.
- Designed and coded implementation of relational database components utilizing the C programming language and the **CodeBase** library (an **RDBMS** library written in C).
- Designed and **coded** implementation of a dial-up communications system featuring file transfers, database access, e-mail and an embedded **C language interpreter**.
- Designed and coded implementation of a research administration application for grants and proposals written in Microsoft Access running on Windows 95/NT.
- Designed and coded implementation of the Office of Research web site providing database access via ColdFusion running on Windows NT.

SOFTWARE SUPPORT TECHNICIAN

COMPUTER WORKS OF FLORIDA, Tampa, FL / 1985

- Software Support Technician providing **customer support** for the installation and use of operating system and applications software.

ANTI-SUBMARINE WARFARE OPERATOR

Patrol Squadron Eleven, AW2, Second Class Petty Officer (E-5)

UNITED STATES NAVY, Brunswick, ME / 1981 - 1985

- Air crewman and Aviation anti-submarine warfare operator flying on P3C/Update II.5 Orion long-range patrol aircraft.
- Operated non-acoustic sensors (**radar, electronic support measures, magnetic anomaly detection, infra-red detection**) and on-board computers for the purpose of localizing and tracking submarines and surface ships. Qualified in multiple areas utilizing classified information.
- Over 1,000 hours of flight time.