TOM OLESON

SENIOR SOFTWARE ENGINEER

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SKILLS

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

OPERATING SYSTEMS
Linux/RHEL/Debian/Ubuntu/Mint,
Amazon, **Solaris, Windows,** AIX,
MS-DOS, OS/2

MIDDLEWARE
Docker, Steel-Belted **RADIUS**,
FreeRADIUS, JBoss, **AMQP**
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 & DATABASES
Oracle, Postgres, REDIS,
Microsoft SQL Server, **IBM DB2**,
Sybase, **MySQL**,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

FOUNDER / SOFTWARE ENGINEER / ARCHITECT

OnTask Enterprises LLC, Tampa Florida / November 2018 – Present

- Work on Free-Open-Source-Software projects for **Linux**.
- Development of a reusable **common framework** for back-end server applications. Features include **thread pools**, **worker threads**, **network** sockets, **multiplexed loggers**, configurations and a **cache manipulation language**. Coded in **C++**.
- Development of VORTEX, an in-memory, **event driven**, key-value **data cache** featuring an interval based **rolling data journal** (backup/recovery) and a **large number of client connections**. Coded in **C++**.

ADVISORY SOFTWARE ENGINEER

Syniverse, Tampa Florida / April 2008 – November 2018

- Applications produced revenue of **20+ million annually**.
- On **Linux** and **Solaris**, developed **high-volume** Mobile Data Roaming and WiFi plugins on frontend Steel-Belted **RADIUS** and **FreeRADIUS** servers**.** On **Linux**, developed backend processing applications interfaced to **AMQP** message brokers and **Oracle** database instances.
- 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.

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

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 IBM DB2 on the backend.

SOFTWARE ENGINEER / ARCHITECT

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

- One of four **architects**. Development work on a enterprise level business process management application builder.
- **Architected** and coded the **Java** code-generator for run-time process logic and deployment functionality.
- **Coded** implementations using Enterprise JavaBeans, XPP, Servlets, and **JDBC** on JBOSS and Weblogic providing support for **Oracle**, **MySQL**, Microsoft SQL Server and IBM DB2 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 **Java**, Enterprise JavaBeans, Servlets, Applets, **JSP**, XML, **HTML**, JMS,Sockets and **JDBC** providing support for **Oracle**, Sybase, **Microsoft SQL Server** and IBM 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 resulting in **effective implementation and deliveries**.
- 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 I**BM 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 **IBM DB2** database.
- **Coded** implementation of a network accessible batch load facility for server farm configuration data using **HTML**, a client **Java** 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 **fixed/closed a large number** of existing software defects, **greatly reducing the backlog**.

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 **MS-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 **MS-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 information classified SECRET.
- Over 1,000 hours of flight time.