

Thomas M. Micheline
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SOFTWARE ENGINEER

Programmer and architect with 20 years of experience developing solid, extensible, and maintainable solutions to meet diverse business needs.

Development: Object-oriented design, dynamic web application development, database schema design.

Programming: Java, SQL, J2EE (Servlet, JSP, JPA, Faces), Hibernate, Web Services (JAX-WS, SOAP), Portlets, Java APIs for XML, JavaScript (including Ext JS), Ruby/Rails, Groovy/Grails, JBoss and JBoss Portal, WebWorks/Struts2, C/C++, PHP, Perl

Databases: Oracle, MySQL, PostgreSQL, Sybase, SQL Server, DB2

Tools: Ant, maven, make, CVS, Subversion, git, UNIX command line utilities

Environments: UNIX, Linux, Mac OS X, Xen Hypervisor, Cloud Computing (AWS), Windows

PROFESSIONAL EXPERIENCE

SENIOR SOFTWARE ENGINEER II, 2010 to present
Moebius Solutions – San Diego, CA

- As a member of a scrum team, built an XML-DB backed, Intranet portal site for the US Marine Corp 1st Marine Expeditionary Force using Ext-JS on the front end and Jersey-based web services on the backend.

PRINCIPAL SOFTWARE ENGINEER, 2000 to 2010
Global Crossing – Rochester, New York

- Designed and built BGP prefix filter maintenance application that polls the Routing Assets Database (RADb), summarizes the results, and identifies changes in customer route lists. All changes are queued in an Oracle database until the relevant routers can be updated using a custom built expect script. Sending only deltas on each update minimizes changes to router configuration. System includes a web-based front-end tool including a dashboard and highly detailed historical analysis using JRuby with Rails and ExtJS.
- Built a Java Swing based desktop application that provides more convenient access to in house project/time-tracking web application for the purposes of recording time spent on individual projects. Backends to existing web application.
- Built alarm-monitoring system for ATM/FrameRelay customers, which polled a third-party database for new SNMP alarms and sent out notifications to customers based upon configurations pulled from other corporate resources.
- Designed and developed GlobalView, a database of the hardware and circuit information for world-wide network leveraged by a variety of internal support and automation systems. Populated via custom ETL utility drawing from a variety of sources including router configurations and SNMP polling data.

SENIOR SOFTWARE ENGINEER, 1997-2000

Mitchell International -- San Diego, California

Designed and implemented Quality Recycled Parts (QRP) server-side system including high-performance Oracle-backed database for storing and distributing automotive used part data supplied by the Automotive Recyclers Association (ARA) to clients connecting via dial-in TCP/IP connection.

SOFTWARE ARCHITECT / GENERAL PARTNER, 1993-1997

RTD Systems and Networking, Inc., Tucson, Arizona

- Chief software architect for all in-house and commercial software products.
- Brought leading Internet Service Provider (ISP) account maintenance and billing software (UTA™ and NetReporter™) to market. Designed and developed highly configurable systems for managing dissimilar account types, tracking on-line time for billing and generating custom reports and invoices.
- Lead other developers in design and implementation of credit card billing system (Automated Credit Express™), which integrated with UTA.
- Built high-performance, multi-threaded, multi-protocol proxy that utilizes Remote Authentication Dial In User Service (RADIUS) for user authentication.

SENIOR SYSTEMS SOFTWARE SPECIALIST, 1993-1995

Sunquest Information Systems, Tucson, Arizona

- Ported system support utilities and scripts for hospital lab system to early release of Digital OSF/1 and brought first OSF/1 client site on-line.
- Debugged and resolved long standing tty I/O problems for application level printing to network printers.
- Designed and built automated system for software update delivery and data collection to multiple machines connected via dial-in modem utilizing Kermit and expect.

PROGRAMMER, 1991-1993

University of Arizona, Tucson, Arizona

Designed and developed electron spectrometer instrument control and data acquisition software for the Surface Analysis Laboratory of the Chemistry department to replace aging PDP-11 based control system with PC based system.

CREDENTIALS, EDUCATION, and COMMUNITY APPLICATIONS

Education

- University of Arizona - Tucson, Arizona.
- NOVA Southeastern University - Ft. Lauderdale, Florida.
- Western Governors' University - Salt Lake City, Utah.

Certifications

- Oracle Certified Professional, Java SE 6 Programmer (SCJP)
- CIW Web Development Professional
- CIW v5 Database Design Specialist
- CIW JavaScript Specialist
- CIW Perl Specialist
- CIW Web Design Specialist

Military Experience

- Completed Machinist Mate "A" School.
- Completed Nuclear Power School at the Naval Training Center Orlando, Florida.