

## Arthur Salazar

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### Summary

Software Engineer with over 25 years experience in software architecture, development and design, object oriented design, technical leadership and software development. A proven track record of delivering innovative solutions and products on time. Key strengths include excellent technical skills at all levels of software development, including requirements gathering, design, implementation, testing and project phases, ability to work well with management and project teams, strong written and verbal skills. Technical skills include:

UNIX, Linux, AIX, MS/Windows, C, C++, Java, Object Oriented Analysis and Design (OOAD), Spring, JMX, Networking, HTML, XML, UML

### Professional Experience

**VisionSolutions, Inc.**, Irvine, CA

May 2005 – Present

Provider of high availability solutions for AIX, Linux and i5/os.

Senior Software Engineer – Project lead and senior developer on development and release of a low-impact high-availability solution for AIX and Linux. The product, written almost entirely in Java was released to general availability in May of 2006. (Java, C, Shell, Spring, Perl, JMX, XML, AIX, Linux, OOAD, Cruise Control)

- Led a small team that replaced a heavyweight management client for ORION for AIX and ORION for Linux with a web based interface. This used Spring to manage object life cycle and system startup. Used JMX to expose management interfaces to the web interface, a command line interface and a version of the old heavyweight interface. This team produced the first version of the interface from a standing start in about 4 months. This interface enabled a number of sales in accounts where it was not possible to run the heavy weight interface.
- Acted as technical lead for a small team of architect, developers, test, and documentation. This team worked closely to get the product on the market on time despite several last minute setbacks. Coordinated the team over several geographical areas.
- Created and developed several new features for the product that allowed users to use the product with new applications and resources. This led to partner agreements in France, Canada, Mexico and Venezuela.
- Developed low-level utilities that allowed the product to compete for accounts against the leading competitor.
- Led a project to automate build and media delivery. This integrated previous build processes into Cruise Control and presented the work products on a web page. This eliminated human induced build problems, relieved a developer from doing builds and allowed QA to create builds on demand.
- Worked closely with IT to create a development lab with over 25 pairs of computers (Series p, Series i and Linux) to accelerate development and create a more robust test environment.

**SoftwarePROSe, Inc.**, Los Angeles, CA

September 2004 – April 2005

Provider of custom software solutions to Government and Industry partners

Senior Consultant - Lead and senior developer on database replication solution for dynamically replicating distributed databases on unreliable and disconnected networks.

- Led port of SyndSync from Windows/XP to Linux and addition of enhancements for Boeing, Telcordia and SAIC. SyndSync allows replication of distributed databases over unreliable and disconnected networks. This was a proof of concept project that is intended to cause SoftwarePROSe to be selected as a vendor for replicated database technology for the Army's Future Combat Systems project. (Linux, Windows/XP, C/C++, DBMS, SQL, OOAD, UML, Networking, HTML)

**Sun Microsystems, Inc.**, San Diego, CA

July 2000 - August 2004

Global provider of industrial level hardware, software and services with annual revenues in excess of \$11 Billion.

Staff Engineer, Software - Lead and senior developer on strategic software initiatives including the Service Processor software for managing Data Center systems and Fault Management. Member of corporate wide Architecture teams, and Strategic Working Groups. Responsible for several cross BU design efforts.

- Led the design team that developed the software for the Service Processor Core Software for the next generation Data Center System. This is the customer-focused application software for managing the system. (UNIX, Java, C/C++, XML, OOAD, UML, Six Sigma)
- Led the effort to interact with customer representatives and marketing, gather requirements and formulate, research and develop the Service Processor Software Architecture. Originated much of the high level architecture. Set the technical direction and guided the team towards reasonable design solutions. (Volare requirements process, Six sigma)
- Developed high-level design of the core and coordinated it with Sun wide standardization efforts. (XML OOAD, UML, Java, C/C++)
- Drove architecture and functional specification, and other deliverables including documents covering four major architectural areas (Service Processor overall, Service Processor Core, Common Services, and Appliance). (OOAD, UML)
- Worked with the development leads to create designs and implement the architecture. This effort used the Volare requirements gathering process and UML extensively for its findings and work products. (Volare, OOAD, UML)
- Led Senior Developer for the Fault Management Architecture (FMA) for next generation Data Center Systems This is software to detect, diagnose, recover and restore the system when faults are found or the system breaks. Sun is currently deploying FMA on Sun Servers to proactively find and repair system failures resulting in reduced customer and application impact when a system component fails. (UNIX, XML, HTML, JSP, Java, C/C++, OOAD, UML, Networking, Ant, JUnit)
- Led a Sun Sigma (Six Sigma) effort to determine the effectiveness of Sun's fault management systems and the impact on the Customer and to focus development in areas of high customer visibility. (Six Sigma)
- Worked on a cross BU team of senior engineers to develop a new data telemetry strategy for management of system and fault management telemetry streams to Sun's System Management Center and Sun's Service Centers. Systems use this protocol to communicate between themselves when communicating fault information during multi system failures. This effort was one of the first to use XML extensively inside Sun. Sun will utilize this to reduce service costs and complexity by standardizing information flow to Sun Service centers. (UML, XML)
- Created and led the team that developed the data schema for managing multiple instances of operating systems on dynamically configured hardware Domains on Data Center Systems (XPARS). This work is currently being prepared for patent submission. (UNIX, UML, OOAD, Java, C/C++)
- Formed and drove a cross team effort that developed the Data Center System Boot Strategy and the fundamental concepts that shaped the system boot process. This process formed many of the Architectural concepts that are now part of Data Center Systems, including those that led to the patent submission. This team streamlined the boot process and organized it to allow pre-testing of components to reduce boot time from hours to minutes. (UNIX, OOAD, UML)
- Incorporated Sun Sigma techniques and introduced advanced engineering technologies (such as UML) to the projects I worked on.

**UCSD Extension – Information Technologies** San Diego, CA October 1997 – December 2005  
Major Campus in the University of California System. Extension teaches university level classes to regular students and in community outreach to retrain professionals and provide professional growth.

Instructor – Taught classes in Object Oriented Analysis and Development, Java Programming, UNIX System Administration, use and programming of UNIX and Solaris systems

**GTE Internetworking (GTE.net)** San Diego, CA July 1996 - July 2000  
International provider of telecom and networking services. GTE Internetworking was the Internet Service Provider (ISP) for GTE.

Senior Software Engineer – Created and directed the development of customer facing Web services for the ISP including customer acquisition and service subscription.

- Created and directed the development of customer facing Web services for the ISP including customer acquisition and service subscription. (OOAD, HTML, Java, C/C++, DBMS, Windows, UNIX)
- Designed a refit of the <http://www.gte.net> web site infrastructure to accommodate broadband (xDSL, ISDN and Cable) content and services. This included dynamic content generation, personalization, and access to GTE telecommunications products. This included a new class of broadband services and new revenues. (OOAD, UML)

- Worked on the architectural team that designed the internal Order Entry System for GTE's ISP (<http://www.gte.net>). Worked closely with GTE Corporate IT to develop requirements, architectural structure, design and timeline for the project. This system was deployed at all GTE order centers and Phone Marts across the country and allowed GTE wireless customers to order ISP services with their wireless phones. (HTML, Java, C/C++, Networking)
- Designed and developed GTE.net On-line Registration. It replaced the system that was in place at the time. It was designed to allow multiple application presentations and allowed developers to fully utilize existing code and to reduce development costs. This system managed registration of between 1000 and 4000 new customers a day on-line (more at Christmas). This project was GTE.net's first successful large scale Java program. The entire front end was written with Java, Servlets and JSPs. (Java, HTML, Servlets, JSPs, JDBC Windows, UNIX)
- Led the development and initial deployment of a new GTE.net Online Help Application. Customers were able to query an intelligent system with questions rather than call the help desk for questions. The direct result was about a 20% reduction in help desk calls.
- Developed, with a senior team, the GTE.net Common Business Object (CBO) protocol. This was a distributed object, n-tier design that encapsulated the business logic for registering and managing all GTE.NET customers, orders, products and services, supporting multiple databases and allowed on-the-fly provisioning of Internet and telecommunication services. This reduced per customer cost and streamlined provisioning of advanced services. Introduced UML to the GTE.net design methodology in this project. (Java, HTML, UML, OOAD)
- Redesigned GTE Corporate Web Site (<http://www.gte.com>) for reliability, stability and scalability. This system included the GTE corporate web site and a "storefront" e-commerce application. This system went on-line in December 1999 and ran at 100% customer uptime. (UNIX)

**Platinum Solutions, Inc. (Formerly Locus Computing Corporation)** Los Angeles, CA July 1989 - June 1996  
Provider of system solutions and data base software for business information systems.

Senior Engineer – Designer and Developer of Unix system software at the User and System level for Clients such as IBM, Sun and HP.

- Project Architect and Senior Technical Lead for a project to develop System V Environment (SVE), a SVR4 system layer on Digital UNIX. (UNIX, C/C++, Threading, Unix Kernel)
- Architect for System Administration on a Clustering extension to AIX/6000 (UNIX for the IBM RS/6000). This effort involved distributed processing and file systems over tightly coupled parallel CPUs. (UNIX)
- Designer and Developer for multi-processor extensions for the kernel debugging tools for PAIX, a multi-processor version of AIX/370 (UNIX for the IBM 370). (UNIX, C, Unix Kernel)
- Technical Lead for the Installation and Service development group for AIX 1.2.1 (UNIX for the IBM PS/2 and the IBM 370). (UNIX, sh, C, Threading)

**Terminal Data Corporation**, Simi Valley, CA May 1985 – July 1989  
International provider of document storage devices and high-speed scanners for service bureau, banking and insurance industries

Software Design Engineer -- Developed embedded operating systems for dedicated computer systems that drove high-end document and microfilm scanners. Created device drivers, command and image routers and a complete re-entrant multi-threaded rewrite of the standard C library for use in TDCs systems. (Embedded, Realtime, device drivers, C)

### **Education**

- California State University, Northridge, Graduate Studies in Computer Science (1985)
- California State University, Northridge, Completed course work for BSCS (1983)
- University of Texas, Austin, Masters of Arts (1979)
- University of California, Santa Barbara, Bachelor of Arts (1974)

### **Certification**

- Certified pSeries AIX Management and Administration

### **Additional Education**

- AIX and pSeries Management and Administration

- Object Oriented Analysis and Design with Java
- Design for Sun Sigma (Six Sigma)
- Developing Enterprise Architecture, Enterprise Architecture Conference API
- Object Oriented Design and Development with Rational Rose
- Sun System Administration
- SunOS Device Drivers
- SNMP
- X Windows Internals