**SPART ARGUELLO**

**Lead Software Engineer**

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**Summary**

Experienced software engineer with more than 20 years of implementation experience in Java with a proven ability to deliver on critical implementation projects. Recent projects include progressive Web Applications using Angular, TypeScript, JQuery, Spring Boot, RESTful Web Services, JPA Repositories, various relational databases, gradle, maven, unit testing(client and server), integration testing, end to end testing

**Professional Experience**

**CoreLogic, Irvine, CA (June 2018 – November 2019) Professional Senior Software Engineer**

* Part of a team that developed a new next generation application, AutomatIQ Borrower, which automates and streamlines the borrower analysis and verification
* Worked on creating new features and enhancements ranging from angular front-end modules as well as secure server side restful APS and microservices
* Recent versions of Java, Spring and Spring Boot, Kafka, Angular, paired programming
* Test Driven Development (TDD) and agile methodologies; front end and back end unit testing, end-to-end testing
* Activiti, APS, Business Process Management
* Continuous Integration
* Received Pivotal Cloud Foundry training from Pivotal, as well as hands on experience through Pivotal Cloud Foundry in a production environment, as well as non-production environment

**cFive, Laguna Woods, CA (August 2016 – March 2018) Lead Software Engineer**

* Designed and implemented enhancements for an existing system
* Created a geofencing application for parolees using google maps and RESTful web services
* Created recommendations for QA and helped mentor junior QA associates
* Created an offline progressive web application white paper that later provided the case to use Angular as a progressive web application for offline use
* Created portions of a progressive web application that were intended to work offline, with laptops as well as mobile device with or without an Internet connection

**MedImpact, San Diego, CA (November 2013 – January 2016) Business Process Developer**

* Initially started working on a new Health Care Reform solution which used the latest version of PrimeFaces at the time, along with the latest J2EE stack
* Enhanced the Prior Authorizations (PA) Web Service (SOAP) and helped create a web service guide for other developers to be able to reuse as a web service template to speed deliver CXF contract first web services: [Maven, Java 8, Spring, CXF Web Services, AOP]
* Migrated from IBM BPM 7.5 to IBM BPM 8.5 while also further customizing the ePA: several SOAP web services with iText PDF generation and content management with FileNet and object-oriented Java and JavaScript (Server Side and Client side).
* Worked on a new outbound IVR project which is currently in production: this has helped them be compliant with notifications as well as speed up the notification process and save some man hours
* Created a Java JPA persistence layer for several other developers to reuse in the process of revamping the letter fulfillment process: extract, load, notifications and a routing service were based on the persistence layer developed by me; extract process communicated with FileNet: [Maven, Java 8, Spring Boot, Spring Batch]
* Critical project updating their Prior Authorization web service to version 1.3
* Enhanced BRMS extract project

**Randstad Technologies, San Diego, CA (February 2013 – November 2013) Lead Software Engineer**

* Helped meet business needs with a tight deadline and performance requirements by implementing Roles, privileges, and services to be used for spring security and helped identify methods that needed to be secured
* Improved the performance of a highly used business function by several magnitudes by improving the service layer
* Implemented an autocomplete employee search component which was reused in several areas of the application; created several panels and reports for the Sponsored Project Accounts Receivable & Cash Management (SPARCM) project
* Created a script to automate JavaScript optimization. Technologies used: JavaScript, JQuery, JSP, J2EE, Concurrency, Spring Dependency Injection, Spring Security, JPA, Hibernate, Oracle, DB2

**UnitedHealth Group, Irvine, CA (October 2010 – February 2013) Lead Software Engineer**

* Helped meet business needs with a tight deadline and performance requirements by improving the performance of a Rich Internet Application written in GWT to 100 times quicker; created a fast table implementation which loads extremely quick on the client
* Created several forms of this fast table, a simple table, one with sorting and the other with filters which required modifying google code
* Further optimized the application with lazy loading across most hot spots
* Created several live suggest boxes that interfaced with large carrier account groups for plan benefits, including a lot of optimizations
* Improved their Interactive Voice Recognition system and improved the performance of a global web service by several magnitudes; created a migration job which met business needs on correctness and performance, something that previously took more than three days to process
* Technologies used: GWT, Smart GWT derivative, JSP, J2EE, Concurrency, Spring Dependency Injection, Hibernate, Oracle, DB2, MS SQL Server

**RedHat Inc, Charlotte, NC (May 2010 – July 2010) Senior Consultant**

* Quickly developed several proofs of concepts for JBoss Messaging and Alfresco, also developed a couple of end to end solutions which used JBoss Messaging along with talking with Alfresco through SOAP and the REST API
* The end to end solution needed to be able to scale both on load as well as individual pieces of work, so file chunking as well buffering was required
* The environment and technologies used were: Windows (development), Linux (test and production), MySQL, Oracle, JBoss, JBoss Messaging, and Alfresco (Foundation API, JCR, SOAP, and REST)
* My other duties were to properly install JBoss and cluster in their RHEL environment as well as Alfresco and work with the reference architecture team

**APEX Systems, Irvine, CA (August 2008 – April 2010) Lead Software Engineer**

* Developed a rich internet application as an inventory and supply chain management system called Display Project System (DPS); developed from scratch and it helps manage display projects by general information, fulfilment, kit components, customer marketing, logistics, corrugate components and cost analysis
* The system was developed using GWT, GWT-EXT, JSP, Spring (Dependency Injection, Security, MVC), JBoss and Oracle
* Re-architected GWT code so it could be used for both coach.com and batteries.com
* Single page checkout process which allowed users to continue shopping while adding more items to their cart or shopping bag and my account with both draggable (batteries.com) and non-draggable windows(coach.com). Used Inversion of Control or Dependency Injection to decouple high-level client modules from low-level client modules and services
* Primary design patterns used: Dependency Injection, Abstract Factory, Factory method, Singleton, and Command
* The site is using GWT, JSON, JSP, Struts, Spring, WebSphere Commerce, and DB2
* As a software engineer, my priority was to develop a Content Management System for broadcast and production
* The CMS managed ticker information which was ultimately displayed for Lost in 2.0, XPLAY, and AOTS
* The system was developed in Java 1.5 making use of generics, annotations (EJB3), GWT, GWT-EXT, Hibernate, JDom, and Ant
* Provided support for the Emmy's on an already existing web service, helped upgrade several applications which needed authentication against three different domains using LDAP, reviewed and debugged an e translator configure library(C++), and created a multi-sync service(Java) which provided multiple A to B synchronizations in an efficient manner and fail-safe manner
* The environment was in Linux, Oracle, and JBoss

**Interpoint Partners, Inc., Carlsbad, CA (March 2008 – August 2008) Lead Software Engineer**

* As lead developer I had many responsibilities including maintaining old development in ColdFusion while creating new GWT Widgets using GXT
* Developed an automation tool called Extract Transform Load Automation (ETLA); it reduces the number of mistakes that could happen doing this manually while also reducing the amount of time spent performing the extract transform and load at any given moment in time
* ETLA is a Java application developed with Concurrency, Mail, Activation, Stored Procedures, Data Access Objects, and Secured Connections
* The environment was in Windows with MS SQL Server and ColdFusion
* Developed scalable excel exports using Java and JExcel and created a custom ColdFusion tag for excel exports
* Created a ColdFusion monitor using Java, Concurrency, Mail, and Activation

**Triad Systems, Inc., Huntington Beach, CA (March 2007 – February 2008) Full Stack Developer**

* Developed a new business to business system called Electronic Buy-To-Package (EBTP) and it reduced both the creation time required internally and the delivery time to the supplier while also providing a consistent delivery mechanism
* EBTP is an AJAX application developed in GWT, Oracle, middle-gen, Hibernate mappings, HQL, Hibernate SQL Queries, Data Access Objects, LDAP, Java, Java Script, and Asynchronous Callbacks, Ant
* The environment was using CMMI, Unix on HPUX with Oracle 9i and Sun 1 Web Server
* Provided metrics and production support for the Electronic Procurement Information Center (EPIC)
* Improved the performance of document search queries by minimizing the amount of times the database was called and recommended the use of native SQL through hibernate sessions and using stored procedures through to improve performance.
* EPIC is implemented using Oracle, hibernate mappings, HQL, Hibernate SQL Queries, Data Access Objects, Spring, JSP, and JSTL and Java Script generated through GWT, Ant
* The development environment and production environment are all in HPUX Unix with Oracle 9i and Sun 1 Web Server

**Innovative Software, Aliso Viejo, CA (March 2005 – March 2007) Lead Software Engineer**

* Lead a team of 6 Java developers to create a thin client patient tracking system which is used worldwide; used the following technologies: J2EE components using hibernate, cewolf, struts, XML, jasper reports, active widgets, log4j, middlegen, ant, MySQL on Linux and Microsoft SQL Server database on Windows Server

**UC Irvine, Irvine, CA March 2001 – March 2007 Lead Software Engineer**

* Designed and created a J2EE web application that uses the data access object pattern along with hibernate as the object relational mapping system
* Automated the testing by creating test fixtures which are tested with JUnit 4
* Contrived a multithreaded Java application to start and stop fading remote images in a very fast yet efficient manner. Created a Java 3D applet to load an Alias|Wavefront Object File as a 3D model of the olfactory bulb
* The web application was implemented using JSP, JSTL, EL, Java Script, hibernate, MySQL, and ant for the build.
* Created a multi-tiered distributed application that contains a multi-tiered digital image analysis system as the client and a multi-tiered database application as the server.
* Implemented the project using Java, Java RMI, Java Advanced Imaging, Java 2D, Swing, Java Mail, RMI, ANT, and eclipse
* The client is a multi-tiered digital image analysis system that semi-automatically collects data from .TIF files which contain images of 2-deoxyglucose uptake through the glomerular layer, standardizes the data, and expresses the results in data matrices
* My role was lead developer using Java, Java Advanced Imaging, Java 2D, Swing, RMI, ANT, and eclipse as the IDE of choice at the time
* The server is a multi-tiered application with a database that stores both activity matrices and pair-wise Pearson correlation coefficients calculated for both average patterns across different studies and individual patterns within a single study
* The server extracts average and maximal values of uptake within previously determined glomerular modules. The server sorts the results in ways to facilitate the appreciation of meaningful relationships from the data.
* Tested several CORBA IDL compilers to compare in house compiler with off the shelf compilers with Junit

**Education**

**B.S. – Information and Computer Science; University of California, Irvine, Irvine, CA**

**1998 – 2001**

**Publications**

<https://onlinelibrary.wiley.com/doi/abs/10.1002/cne.21322>

<https://onlinelibrary.wiley.com/doi/10.1002/cne.21198>

<https://onlinelibrary.wiley.com/doi/10.1002/cne.21322>