### Tools

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### JORGE CALDERON

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### Education

**Master of Liberal Arts (ALM) – Information Technology expected: 5/2015**

**Concentration in Software Engineering**

**Harvard University Extension School, Division of Continuing Education, Cambridge, MA**

***Thesis:* “Multi-agent Systems in Distributed Agent-based Model Simulations and Game Theory Programming Game Tournaments” under Professor Daniel Bromberg**

**Bachelor of Science – Finance**  
University of Maryland, College Park, MD 12/2000

*Finance Coursework:* Securities Valuation, Derivatives, Financial Management, International Finance

### Areas of Interest

Computational Economics, Computer Simulations, Multi-agent systems, Distributed Computation, Computation and Education, Parallel Processing, Data Visualization (DataVis), Usability

### Open Source

**The Common Simulation Framework** (In Progress): A framework to allow interoperability between popular agent-based model (ABM) simulation toolkits, multi-agent systems (MAS), and intelligent agent artificial intelligence modeling software, particularly for the Multi-Agent Based Simulation (MABS) community. This project is an extension of the thesis work. Application to the Harvard Innovation lab incubation program for Spring 2015 pending.

**The Simulation and Agent Repository** (Planning): A platform for the exchange of simulations, agents, and models to encourage interdisciplinary collaboration and simulation reuse across the natural, behavioral, and social sciences; and to encourage collaboration between the sciences and artificial intelligent community

### Clearance

Department of Defense-Secret (Inactive)

Department of Veterans Affairs-Public Trust (Pending)

### Work Experience

**CACI, Inc.** 7/2011 - Present  
**Department of Veterans Affairs (Client)** Washington, DC  
Development/Workstream Lead

* Led a cross-functional team of software architects, development and SQA testers, a requirements analyst, a software designer, and software developers, working on a suite of middleware applications in an agile environment (~70% time performing tasks as lead developer).
* Led daily scrums, and reported on weekly scrum of scrum meetings.
* Acted as the primary point of contact between the team and development management, testing and SQA management, configuration management, other development teams in the same overall development group, and some external parties.
* Interacted (non-primary) with other teams such as security and operations, change and control boards (CCBs), enterprise integration testing, requirements management, and customers.
* Developed RESTful and SOAP web services and middleware components in Java and Node.js.
* Performed software design for Node.js and Java applications
* Developed Level of Efforts (LOEs) for management.
* Performed data architecture tasks including the creation of complex XML schemas and sample XMLs using the NIEM information exchange standard data model.
* Worked on and supported large-scale information exchanges with the Department of Defense and other entities, including the Affordable Care Act (ACA), Disability Benefits Questionnaires (DBQs), Electronic Case Files (eCFTs), Service Treatment Records (STRs), Virtual Lifetime Electronic Record (VLER), Information Sharing for Improved Coordination (ISIC), and Digits-to-Digits (D2D) project.
* Worked as the primary technical contact between the overall development group and other development teams within the VA and outside the VA for the high-profile Digits-to-Digits project.
* Created a standardized Linux development environment.
* Created rapid prototypes to support new functionality and win new work.
* Researched new technologies for potential adoption by the team.
* Gave organization-wide demos on new functionality.

Development Tester and Functional Analyst

* Developed functional business and technical requirements for Health and Benefits information exchange between the VA and DoD using NIEM, Atom feeds, and other data formats.
* Analyzed and created XML, XSL, XSD, JSON, and SOAP data mappings and mock files for data transfer between the VA and DoD.
* Used XML Spy, Maven, Rational Functional Tester.
* Developed Java/Groovy scripts for automated functional testing and other Java tools.
* Worked with other applications, enterprise architects, application architects, and developers, testers, and requirements analysts from various teams to deliver timely release.
* Participated in daily and weekly scrums in Agile environment.

**Department of Defense (Client)** 8/2010 - 7/2011

**IBM Global Business Services (GBS), Prime Contractor** Herndon, VA   
Test Lead and Configuration Management

* Performed application testing on IBM Cognos TM1 and BI Reporting products for a financial budgeting, reporting, and ad hoc querying application.
* Performed data validation on application using IBM Cognos BI reports, IBM Cognos TM1, and IBM Infosphere DataStage products.
* Produced and edited training materials and requirements documents.
* Deployed IBM Rational Team Concert and Quality Manager for requirements, test case, and defect management using SQL Server/ODBC.
* Managed daily builds and source control for test and production environments.

**Self Employed** 5/2007 - 8/2010

* Web development-Joomla and Drupal. Vienna, VA
* Leasing Service-Corporate Housing.
* Aerospace Payload Brokerage (Startup team): Secondary Launch Services, LLC.

**Sprint Nextel** 5/2005 - 4/2007   
Systems Analyst-Lead Reston, VA

* Analyzed functional business requirements on a major enterprise project for integrating the Sprint.com into the Nextel.com store for three key e-commerce applications, including the external facing nextel.com store application.
* Created system requirements based on functional business requirements, including designing and creating GUI screen layout mockups for two internal facing applications and their accompanying business rules.
* Trained internal application end users, testers, project managers, internal customers, business analysts, other systems analysts, and new developers on existing and new functionality of the applications.
* Created and contributed to documentation for the system design, application test plan, user release notes, issues log, user training guides, and various internal customer facing documents.
* Participated in LOE formulation sessions with technical leads and architects.
* Proposed and documented functional solutions for meeting business requirements and to enhance application usability, many of which were adopted into the final design and implementation.
* Wrote system test cases, executed system testing, and logged defects into Synergy.
* Worked closely with the end-to-end enterprise testing team to clarify system requirements and functional business requirements, and critique test requirements/scripts.
* Created and executed multiple queries for validation of data migration of product catalog and other scripts.

Business Analyst/Web Editor 5/2005 - 4/2007

* Implemented the monthly products, pricing, and promotions for the online store. Reston, VA
* Performed localization of the web store and by worked closely with the onsite translation team.
* Performed application testing to ensure that marketing promotions were reflected properly for the online store.

**Self Employed** 1/2003 - 5/2005See above section 5/7 - 8/2010. Arlington, VA  
  
**Verizon Communications, Inc.** 1/2001- 11/2003  
Software Engineer Arlington, VARequirements

* Participated in meetings with internal clients to understand their business needs.
* Created use cases and contributed to JADs.
* Created functional requirements documents.
* Created system test cases from requirements.
* Performed User Acceptance Testing.
* Leveraged knowledge of telecommunications to enhance QA team test plans.
* Developed tools with Access and SQL Server.
* Improved efficiency through automation of manual processes, which allowed staff to be devoted to other tasks.

Data Analyst

* Supported developers and testers from various customer ordering and billing systems (both Legacy and new) in obtaining data for use in software release work.
* Utilized DB2, ISPF, JCL, QMF, INS, IMS, SQL Server, Access, and Lotus Notes technologies for ad hoc SQL querying and data conversion.
* Trained new members of the team.

QA Engineer

* Performed SQA functions in accordance with CMM and corporate best practices.
* Analyzed requirements, developed test plans, executed tests, and documented results.
* Performed manual and automated (Winrunner) regression, system, and integration testing using both white box and black box methods in Web, UNIX, NT, and MVS environments.
* Provided production support for interfacing applications and end users.

### Skills

Programming Languages

* Java, Python, JavaScript, C, Groovy, MATLAB (rusty), C# (rusty), Objective C (rusty), PHP (rusty)

Application Frameworks

* Spring, Node.js, .NET/ASP.NET (rusty)

Application Servers

* WebLogic, Tomcat

Web

* HTML, CSS, JavaScript, Apache, FrontPage

Software Design

* UML

Data Exchange

* XML, XSD, SOAP (v1.1 and v1.2), JSON, Relax NG (rusty)

Operating Systems

* Windows, MacOS X, Linux (Ubuntu/Lubuntu, Fedora), OS/360 (rusty)

Databases

* Oracle, MongoDB, SQL Server (rusty), DB2 (rusty)

Protocols

* SOAP, REST

Automated Testing

* SoapUI, Selenium IDE

Applications

* Altova XML Spy, Cognos (limited), TM1 (limited), IBM Rational Jazz platform

Development Processes

* Agile, Waterfall

Libraries and Toolkits

* Repast Simphony, JADE, Hibernate, Log4j, Express, Spring WS, String, Underscore

IDEs

* Eclipse, Aptana, Visual Studio

Source Control and Automated Build

* git, SVN, RTC

Other

* SSH, FTP, JDBC

### Languages

**Spanish, Native Fluency**

### Memberships

Cofounders Lab, Washington, D.C.

Harvard Innovation Lab, Cambridge, MA