

JUAN MARTIN BERTOLINO

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SUMMARY OF QUALIFICATIONS

Seasoned technology professional with a proven track record of delivery of revenue driving technology solutions. Hands-on knowledge of multiple infrastructure and development technologies. Valued technology and career advisor and mentor. Lifelong learner. Good communicator and leader to all levels from developer to board member.

Key areas of technology expertise include:

Software Architecture and Design | Distributed Architectures | High Performance Computing | Functional and Object-Oriented Programming | Code Quality | Data Modeling and Matching | Relational and NoSQL Databases | Application Security | Technology Program Management | Technology Review and Due Diligence | Technology Operations | Training and Mentoring | Public Speaking

PROFESSIONAL EXPERIENCE

Equifax Workforce Solutions – Saint Louis, MO Engineering Fellow – 2019 to present

Engineering leader working alongside technical architects, technical leads, and software developers on the Equifax Workforce Solution's technology transformation and migration to the public cloud.

- Architecture, design, implementation, and deployment of non-reposed data model for the employment and income verification exchange. This is one of the first cloud-based platforms delivered ahead of time and contributing \$40M of additional revenue to the business
- Support the migration of on-premise batch processing workloads to a cloud based big data processing (Apache Spark) reducing turnaround time from over a week down to less than 12 hours
- Subject matter expert supporting the integration of the employment and income verification exchange with a large Federal Government client and supporting the FedRAMP certification requirements. Lead technical resource working with the client in defining and clarifying requirements and communicating them with the technical team developing the solution
- Develop and delivered Java training materials for developers transitioning from other technologies into Java
- Support the implementation of various code quality improvement processes using tools such as Fortify On Demand and Sonar as well as taking feedback from code review and turning them into training documents and mentoring opportunities
- Interim Chief Architect for Equifax Workforce Solutions leading a group of 20 technical architects supporting the organization
- Support Account Managers and Executives in the articulation of our strategy to move their contributed data to the public cloud and the security controls being implemented

Equifax Workforce Solutions – Saint Louis, MO Vice President, Technology – 2016 to 2018

Member of Equifax Workforce Solution's technology organization with a focus on international revenue expansion.

Highlights include:

- Technology leader for a small team tasked with the development and deployment of the employment and income verification service in Canada and Australia. Minimum Viable Product from idea to revenue in less than 18 months. Supported sales and integration activities. Developed a Domain Specific Language (DSL) in Clojure to accelerate the configuration and implementation of Equifax's data platform.
- Designed and implemented solutions to allow phonetic and probabilistic data searching and matching over encrypted databases.
- Developed various proof of concepts and solutions that quickly moved into production usage. Dynamic product orchestration and creation of consumer reports based on a simple rules engine. Highly scalable REST web service to securely store consumer information to allow moving workloads to the public cloud while retaining sensitive information on premises.
- Trusted advisor to the CIO and Senior Leaders on platform stabilization and scalability, performance tuning, crisis and remediation activities related to the security breach.
- Chief architect for the development of a national service to allow consumers more control over their credit file and personal information.

**Innovation, Research and Development, Core Software Engineering at Equifax – Saint Louis, MO
Engineering Fellow – 2015**

Research into multiple areas relevant to Equifax's technology roadmap, specifically:

- Data Matching and Entity Resolution to enable the grouping and deduplication of consumer and company records with varying data quality levels.
- Functional programming languages (Clojure, F#, Scala)

**Equifax Workforce Solutions – Saint Louis, MO
Vice President, System Architecture – 2008 to 2015**

Responsible for Equifax Workforce Solutions enterprise architecture and planning supporting revenue growth from \$305M to \$577M during my tenure.

- Chief architect and technology lead for the integration of Workforce Solutions' employment and income verification service with the United States Federal Government Data Hub. Technical and project coordination with various government officials, government contractors, as well as with internal Equifax teams. Solution architecture and design including infrastructure, security aspects, software construction, web services standards (WS-*), meeting scalability and low latency requirements, and operating active/active across two data centers.
- Member of the technology due diligence team for Equifax's acquisition of VEDA in Australia.
- Corporate technology leader to assist Equifax UK business units with the bid for a large UK government contract. Present and articulate solution details to UK Government Officials. Close work and collaboration with Equifax UK peers and partners led to Equifax winning the bid and successful delivery of the program.
- Technology due diligence for the acquisition of a .NET based Credit Bureau Solution for international deployments
- Led the implementation of SAML Single Sign-On for Equifax Workforce Solutions' external facing platforms.
- Led a security and vulnerability source code review of all of Equifax Workforce Solutions' applications. Support development teams in review of findings and implementation of suggested fixes.

Director, System Architecture – 2006 to 2007

Responsible for systems and application architecture. Support delivering committed system uptime and service level agreements. Support company acquisitions efforts. Ensure technology solutions are properly turned over to operations.

- Technical leader for a team that designed, developed, and deployed a high-performance platform to process large batches (30 to 50 million elements) of employment and income verifications inquiries. Design used various parallel processing techniques such as map-reduce, multi-threading, and processing across multiple nodes in a cluster. Horizontal scaling and minimization of shared state was the key design principle at every platform tier. Design allows for the incremental addition of processing capacity while controlling technology investments.
- Technical leader for multiple Oracle upgrades. Delivered technical presentations to various Oracle development groups on the experiences and challenges when implementing Oracle Real Application Clusters technologies. Extensive work tuning the physical and logical database design to match RAC capabilities. Developed various techniques to perform very large data migrations without incurring any significant application downtime.

**Microsoft Consulting Services – Saint Louis, MO
Solutions Architect – 2006**

Design and development of Microsoft SharePoint based solutions. Technology evaluation and customer support at Microsoft Technology Centers.

**TALX Corporation – Saint Louis, MO
Director, Infrastructure Development/Technologist/Senior Development Engineer – 1996 to 2006**

Development of infrastructure components to support the rest of the application portfolio, selection of technologies and standards definitions, software development design and implementation support, technology support and integration of

multiple acquisitions. Design and development of several C++ based XML Web services using Oracle database back-ends that are still in operation (2018) processing millions of transactions every day.

Bridge Information Systems – Saint Louis, MO
Software Engineer – 1995 to 1996

Development of software for the distribution of real-time financial information data feeds. Develop and port C/C++ applications across various operating systems. Support client integration and implementation activities.

EDUCATION

Systems Analysis and Design, Centro de Altos Estudios en Ciencias Exactas (CAECE) – Buenos Aires, Argentina

TECHNICAL PROFICIENCIES

Languages: C/C++, C#, Python, Perl, F#, JavaScript, TypeScript, Clojure, PL/SQL
Databases: Oracle 10g & 11g, RAC design implications, data replication design implications, performance tuning using AWR/ASH/trace information, SQL Profiles, physical and logical design, MS SQL Server, PostgreSQL, MongoDB, Cassandra, Elasticsearch
Other: SAML Single Sign-On Protocols, SOAP Web Services Standards, WS-Security, data protection and encryption, OWASP application security guidelines, Google, AWS, and Azure Public Cloud platforms, troubleshooting and performance tuning for scalability, throughput, and response time, high availability active/active deployments across multiple regions/datacenters, Django, Kubernetes, Git, Graphviz, Selenium, Node.js, Liferay Portal, Windows Operating Systems, Linux, Solaris