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# **Professional Highlights**

* Around 19 years of experience leading enterprise architecture teams.
* Participate in presales activities providing technical support and subject matter expertise.
* Oversee & strategize **cost effective cloud deployments** across various environments and **multiple geographic regions.**
* Plan & strategize transitioning large monolith ecommerce sites to microservices on cloud platform employing canary release and decoupling services.
* Design **cloud data storage** and synchronization ensuring **country specific data sovereignty.**
* Database optimization to accommodate more than a million SKUs for optimized enabling multi-tenant search.
* Design messaging based (KAFKA/SNS) system to employ CQRS based services.
* Optimize and improve shipping time accuracy & cost, improving conversion rate & customer satisfaction.
* Optimized payment fraud detection rules integrating with various payment gateways for large retailers in LATAM countries and US.
* Optimized site caching driven by business and data change behavior to ensure faster response time. Enabling customers to place offline mobile orders and improving response times on site.
* **Improve customer contextual search optimization & recommendations** using browsing pattern and similar products with higher conversion.
* Mentor and lead large teams and modularize them to domain specific vertical teams increasing productivity and reduce technical debt.
* Establish automated processes and optimize workflows to better track technical debts, test coverage, deployments.
* Designed and successfully launched several complex ecommerce systems (B2C + B2B) for one of the largest retailers in LATAM countries and in the US.

# **Technology Stack**

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| **Cloud Platform** | AWS, Azure, Google |
| **Database** | MongoDB, Cassandra, DynamoDB, RocksDB, Elasticsearch, Oracle, MS-SQL, Endeca (Search) |
| **Container Management** | Docker, Kubernetes |
| **Frameworks** | Apache Spark, Oracle ATG commerce platform, Spring, CQRS (Lightbend Akka, Lagom, Play), Graphql, Node.js (lambda, Sails, Express, Restify, REACT), Bootstrap, Angular |
| **Messaging** | Kafka, JMS |
| **Data formats** | Protocol Buffer, JSON, YML, Parquet, XML |
| **Languages** | Java/Kotlin, Javascript, Python |
| **Cloud Storage** | AWS S3, HDFS |
| **Infrastructure Deployment** | Terraform, Cloudformation, Chef, Puppet, Ansible |
| **Miscellaneous** | Jenkins, SonarQube, cucumber |

# **Skills**

* Requirement Phase
  + Collaborate with business stakeholders to prioritize and translate business requirements to technical solutions and **propose cost effective solutions.**
  + Compare cloud offering and products pertinent to requirement ensuring cost affective solutions.
  + **Evaluate & review contracts of third party vendor solution** offerings ensuring security standards, infrastructure high availability and redundancy, compliance, time to market along with cost effective return on investment.
  + In depth understanding of **measuring cost benefits** to achieve business efficiency and its implementation risk.
  + **Plan and prioritize business scenarios** for proof of concepts for platform selection.
* Development
  + **Lead large teams spread across geographic locations**, alternating the roles of project architect and business analyst (**subject matter expert**).
  + Design enterprise systems ensuring **secured purchase flow with high availability** and reliable design.
  + Proven track record in leading teams across the globe with an open feedback model and align career goals by recognizing individual strengths.
    - Restructure & align tech teams to create subject matter experts thus reducing defects and improve asset predictability.
    - Introduce tools to measure and provide instant feedback on code quality and testing coverage using tools such as SonarQube.
  + Identifying bottlenecks and introducing circuit breakers ensuring the system is resilient to handle peak loads.
  + **Monitor project deliverables and timelines** in addition to ensuring **project technical debt** is at an acceptable level.
  + Estimate & monitor project **resource cost and burn rate**.
  + **Transition monolithic system** to bounded context microservices.
* Integrations
  + Standardize integrations specs with determined SLA, fallbacks and version supports.
  + Coordinate integration testing among developers abstracting service location for seamless integration testing.
  + **Determine sign off requirements** along with prioritization schedule.
  + Coordinate effort for one time and/or continuous data migration to live site.
* Signoff
  + Work with business owners to ensure project signs off with all representing parties aware of the various milestones and key deliverables and business scenarios tested.
  + Prioritize **go live activities**.
* Maintenance & Operations
  + Standardize **metric collection** for load testing and website health monitoring.
  + Work with business to **run analytics reports** and guiding on various goals and a/b testing outcomes, using widely available **machine learning models such as time series, regression, classification & clustering** etc.
  + Plan knowledge transfer agenda, prepare & review maintenance playbook and maintain lessons learnt repository.

# **Employment History**

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| **Solutions Architect (AAXIS)** | **May 2007 - 2019** |
| * Strategize and propose delivery road map, across sprints and releases. * Determine asset delivery and acceptance criteria. * Translate vision statements and high level ideas to short sprints of deliverables. * Estimate team size across various sprints. * Determine technology stack and environment requirements. * Evaluate & review third party vendor solutions contracts and participate in vendor selection. * Participate and evaluate go live plans and checklists in addition to define metrics, alerts and monitors. * Propose team transition plans and support team. * Designed architecture for bank messaging system for high throughput with ability to control messages in queue. * Cleanse Nike’s source code and upgrade system to Oracle ATG’s current version   **Websites Launched:**  Toshiba (USA), Zenni Optical, Falabella & Sodimac (in Chile, Colombia, Argentina, Brazil, Peru), Freeman, Nike + NikeID +Colehaan.  **Technology:** Node.Js, Springboot, AWS(EMR, kinesis/firehose, lambda, etc.) JAVA, ATG, Oracle, Kafka, JBOSS, MongoDB, Spark, Hbase, ElasticSearch, Grafana, Kibana, etc.  **Clients:** Bank Of Colombia, Zenni Optical, Falabella (Chile, Sodimac, Colombia, Peru), Freeman, Nike, Stanford. | |
| **IT Manager/Architect (Ameriquest)** | **June 2005 - 2007** |
| * Took over a vendor management system which was considered a problem system in the organization due to its slow time to market ability. * Re-designed the system to ensure business can launch new vendors very quickly using easy configurations & mappings.   **Technology:** JMS, JBoss, Weblogic WLI | |
| **Architect/Tech Lead (Nexgenix/TCG/Option One)** | **June 2002 - 2005** |
| * Designed and implemented a business user configurable and manageable rules engine using Microsoft Visio hooked with backend to help business users easily change mortgage payoff rules for various cities and counties. * Designed configurable rules for grading mortgage asset quality for bulk selling and re-purchase. * Designed entire Loss Mitigation and REO system using WLI. This system was the most automated system back then in the market and was exhibited in Trade Show. * Implemented web frameworks for quick development along with code generators (boilerplates) which was actively used across the organization.   **Technology:** Weblogic WLI, JMS, XML, etc.  **Clients:** Option One, H&R Block | |
| **Tech Lead/Developer (Xoriant/Mega E-Services/Clearship Infotech/SSI)** | **1999 - June 2002** |
| * Designed a highly configurable, UI generator to adhere to SCORM standard (elearning content sharing standard). * Actively involved in establishing frameworks for applications. * Establish coding standards and design templates. * Actively participated in requirements and designing various components of the application. * Implemented logistics tracking software. | |

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| **Education**   * M.S. in Software Engineering * Bachelors In Physics | **Hobbies**   * Woodworking * Programming **IOT** devices on arduino, **esp8266**, **pine64** with various sensors using C, PHP. |