

# Mohan Samarawickrama

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Enthusiastic, cross-skilled, goal-driven, versatile domain savvy highly experienced AWS certified engineering professional with a strong background in software solution architecture designing and delivery, both on premises and cloud over 6 years in the USA in client-facing roles, working directly with representatives of premier client bases. Over 12 years of experience in leading software development teams. Aspiring technical thought leader seeking an enabling career in leading enterprise technical solution development.

- Strong skills in application modernization with layered API-led architectures in cloud native environments (System, Process and Experience)
- Proficient in implementing microservices in the native cloud (AWS) and on-premises
- Deep understanding of microservice design patterns
- Hands on experience with Java11, Kotlin and Groovy
- Technical lead with hands-on experience in software development best practices
- Hands-on experience with REST and SOAP-based web services, JMS-based message processing services, Message Streaming
- Experience in software engineering platforms and has delivered numerous solutions to businesses in multiple domains including Banking and Finance, Life Insurance, Health Insurance, Electronic Medical Records, Healthcare Interoperability standards, Health Integration, B to B integration, Booking and Reservation, Logistics & Supply Chain.
- Multi-tasker, Responsive communicator. Autonomous learner.
- Well-organized and motivated professional with a strong work ethic.
- Experience in working to perform the development and delivery of the features in agile and incremental development methodology
- Strong communication skills enriched with interpersonal skills and ability to communicate with various pillars such as Product Owners/BAs Project Managers and scrum masters, technical architects, domain experts, DBAs, infra teams
- Capable of providing solutions for business requirements and transforming the solution into technical implementation
- Ability to take ownership of development, unit testing, and development support for QA cycles
- provide development support (technical checkout) to bring the implementation into production

- Capability of back-tracing complex multi-tier multi-service production issues and providing long-term solutions using technical expertise
- Proven leadership skills with a track record of effectively managing teams to maximize their potential, fostering collaboration, and expediting synergy for efficient solution delivery..
- Act as a mentor to the team that turns into a high-performance team to deliver the best, optimized, engineered technical solutions to the business.
- Experience in designing high availability architectures (avoid single point of failure) using F5, Nginx load balancers
- Experience in implementing source repositories GIT and integrating with CI tools (Jenkins)
- Expertise in troubleshooting technical issues at the grass-root level
- Interested and very keen on working on serverless architectures, microservices, and container-based applications.

## ○ **Core Competencies**

- Architectural designing, development, deployment, and monitoring of enterprise API-led Java applications
- Mentoring green teams to become technically competent teams
- Technical evaluation – conducting tech interviews for hiring
- Enterprise integration skills
- Define best practices, guidelines / Monitoring, and supervision
- Client management/ Maintaining client relationship
- Negotiation skills

## ○ **Tools and Technologies**

- Spring Tool Suites, IntelliJ, Visual source Code, Visio,
- AWS API Gateway, Lambda/EC2/Code Build/Code Deploy/Code Commit/Code Pipeline/Cloud Formation/Cloud watch/ELB/IAM,RDS,Redshift
- AWS Secret Manager, Hashicorp Vault,
- Open ID, Okta, OAuth 2.0 , Keycloak
- Bit bucket,GIT,Bomboo, Jenkins, UCD
- Apache Kafka,Kraft, Zookeeper Spring Boot JSON serialize interfaces
- Familiar with Active MQ, Rabbit MQ AMQP,MQTT,STOMP protocols
- Graph DB - Titan,Janus,Gremlin Graph DB
- Spring Open AI Generator/ Generator CLI
- SpringBoot 3, GraalVM ,Java 17, Micrometer Observability, Jakarta EE10
- Familiar with API Monitoring tools- Dynatrace, AppDynamics, Splunk, Kibana
- Other message formats – XML,XSD,DTD,JSON,HL7, UBL, EDI
- HA/Load Balancing –Nginx, AWS Network and Application LBs, AWS ASG
- Mule Soft - API led cloud based development environment

- Database technologies – Mongo DB, Oracle , MySQL , SQL server
- Programming Languages – Java, JavaScript, JSP, HTML5,
- Domain Specific Language - HL7, UBL
- Security/Authentication Tools and Frameworks–SSL, Cryptography, Open SSL, Java Key tool
- Concepts -Micro-services architecture, OOP, GOF Design Patterns, Distributed Systems, Concurrency, Database Design, Service Oriented Architecture, Health care integration, EHR
- Open Source - Apache HTTP Client, Apache HTTP Server, Apache Lucene, ActiveMQ, Apache Synapse, SOLR
- Web services tools and frameworks – SOAP, REST, Axis2, SoapUI, TCP moon, Wireshark
- ORM – Hibernate
- Unit testing frameworks – Junit, HtmlUnit, Jmeter, SOAPUI
- Code quality – Jprofiler, ERA Analyser, FindBugs
- Rules engines – Jboss DROOLS

## **Project Responsibilities**

- Working as a client-facing tech lead (hands-on spring boot-microservices lead in Delta Dental (from July 2023 to date)
- Working as a client-facing architect in the claims core team in HCSC (Blue Cross BlueShield) (March 2022 to June 2023)
- Working as a Technical Delivery Lead in the Cardinalhealth Pharmacy Central project.(Nov 2021 March 2022)
- Working as a client-facing architect in the Magellan Medical Pharmacy project. (Feb 2021 to Nov 2021)
- Working as an API Service Lead in Metlife Enterprise Online Store (Retirement and Income Services). (Aug 2019 to Dec 2020)
- Worked as a Tech Lead in New York Life. (Jan 2019- Aug 2019)
- Worked as a Health Integration Architect/Production support - Health Integration in Healthfirst Health Information Exchange (Nov 2017 to Dec 2018)
- Worked as a Tech Lead in Virtusa ICTA eServices micro-service Development team (Dec 2016 to August 2017)
- Worked as RM/Team Lead of Virtusa WSO2 ESB DevOps team (July 2015 to Dec 2016)
- Lead teams to plan, design, and implement web-based enterprise applications
- Handled primary responsibility of delivering detailed technical design documentation
- Formulate strategic plans for component development to sustain future project objectives.
- Establish project scopes of work, communicate project deliverable timeframes and benchmarks to the technical leadership
- Suggest architectural improvements, design, and integration solutions, and formulate methodologies to optimize object-oriented software
- Collaborated with business analysts, developers, and technical support teams to define project requirements and specifications.

- Identify resources and develop subject matter experts within the team
- Reviewing development deliverables for aligning to quality standards
- Perform feasibility & impact analysis on change requirements
- Allocating and coordinating the daily tasks among the team members
- Support client on estimation and managing expectations
- Mentoring and coaching team members
- Competency building within the team to deliver projects successfully
- Interact and discuss with business users, stakeholders & client leadership
- Perform deployment activities and end-user support on a need basis
- Identify system deficiencies and suggest/implement effective solutions
- Identify reusable code required for our code library and ensure the high-quality creation of the code
- Promote and coordinate technical knowledge harvesting within the project/organization
- Conduct defect triage meetings to ensure the quality of deliverables and Contribute to the development of the Software Engineering competency

## ○ **Organizational Responsibilities**

- Engage in taking up interviews for new resource requirements in to the organization
- Solicit periodic client feedback for continuous improvement
- Conducting quarterly performance appraisals for team members
- Proactively raising risks and concerns to the management
- Implementing mitigation and contingency plans
- Actively involved in seeking new opportunities and worked on multiple RFP
- Conduct Training sessions
- Introduce immerging technologies
- Share domain-specific expertise

## ○ **Educational Qualifications**

MBA, Postgraduate Institute of Management (PIM), University of Sri Jayewardenepura, Sri Lanka (2016)

BSc (Hons) in Information Technology, Sri Lanka Institute of Information Technology, Sri Lanka (2004)

## ○ **Achievements & Certifications**

- ★ Honored awarded in Virtusa Healthcare and Life Sciences segment - 2022
- ★ Trained as a software architect in Virtusa -2017

- ★ AWS Solution Architect Associate - 2024
- ★ Certified FHIR proficient -2022
- ★ Awarded as the best performer in Mphasis Pvt Ltd- 2011
- ★ Certified MuleSoft Associate -2017
- ★ Certified ACS, Australian Computer Society (2000)

## **Virtusa - Company profile (<https://www.virtusa.com/>)**

Virtusa is a globally distributed information technology service company that has offices in 17 countries with 30,000 employees. The company provides IT consulting, business consulting, systems implementation, and application outsourcing services to large enterprises and software vendors.

**Virtusa - Total duration: 8 years (2015 to date)**

<b>Delta Dental</b>	
<b>Role</b>	<b>Client Facing Tech Lead – Provider Service Squad</b>
<b>Duration</b>	July 2023 to date
<b>Domain</b>	Dental Insurance
<b>Technology</b>	Java, Springboot, Azure, Kafka, Spring Security/Oauth, Microservices, GIT, Jenkins, Splunk, Urban Code, App Dynamics, Data Dog, Azure Dev portal, Azure APIM, Run Deck, Figma
<b>Project Description</b>	Provider Service squad is responsible for designing, develop deploy to provider services to production and later on managing these services by tracing and providing solutions for all the production issues reported
<b>Project Responsibilities</b>	Understand existing multilayerd architecture and redesign the service modernization from monolithic legacy platform to microservices architecture by considering best practices of security, resilience, performance, high availability Coordinating with other pillars in distributed service and achieve the SLA bench marks

<b>Health Care Service Corporation(AKA Blue Cross Blue Shield): HCSC Claim Core Adjudication</b>	
<b>Role</b>	<b>Client Facing Architect – Keystone Pricing</b>
<b>Duration</b>	March 2022 to May 2023
<b>Domain</b>	Health Insurance
<b>Technology</b>	Java, Springboot, PCF, IBM MQ, Spring Security/Oauth, Microservices, GIT, Jenkins, Splunk, Urban Code, Azure Cloud
<b>Project Description</b>	HCSC Claim Core Adjudication – Keystone Pricing is part of the HCSC Claim platform and provides the claim adjudication by interacting with Multiplan, Cotiviti, Pre TPL, and UPF external system, The architecture consists of PCF deployed Spring Boot microservices inter-communication, rules engine, IBM MQ integration, and Mulesoft ESB and legacy Mainframe interactions. Keystone pricing receives millions of transaction claims per day flows through each component and adjusts the claim amounts based on various business rules
<b>Project Responsibilities</b>	Performed client-facing architect role by coordinating with client architects and peer tech leads and handling the development required to be in place.

<b>Cardinal Health</b>	
<b>Role</b>	<b>Architect – Java Microservices</b>
<b>Duration</b>	Nov 2021 to Feb 2022
<b>Domain</b>	Health Care
<b>Technology</b>	React, Node JS, Java, Springboot, Spring Security/Oauth, Microservices, Concourse, Docker Bit Bucket,
<b>Project Description</b>	Pharmacy Central project is part of the Cardinal Connect platform and provides the prescribe management, medication reviews.

<b>Project Responsibilities</b>	Playing a client-facing technical lead role by coordinating with client architects and peer tech leads and development requires to be in place.
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<b>Magellan Health Inc. - Magellan Health Inc. (formerly Magellan Health Services Inc.), is an American for-profit managed healthcare company and subsidiary of Centene focused on special populations, comprehensive pharmacy benefits, and other specialty areas of healthcare. Magellan supports innovative ways of accessing better health through technology while remaining focused on the critical personal relationships necessary to achieve a healthy, vibrant life.</b>	
<b>Role</b>	<b>Client Facing Architect – Java Microservices/AWS</b>
<b>Duration</b>	Feb 2021 to Nov 2021
<b>Domain</b>	Health Care - Pharmacy integration
<b>Technology</b>	Java, Springboot, Spring Security/Oauth, Microservices, AWS, Code Pipeline, Code Build, Code Commit Code deploy, Lambda, API Gateway, AWS Secrete Manager, AWS Parameter Store, OpenID, Okta, LDAP, Oracle, Jenkins, Git, New Relic, Angular, React
<b>Project Description</b>	Magellan MedCal project is reengineering project for Java fusion and Weblogic code migration to spring boot microservices deployed in AWS using cloud formation, Code Build, Code Deploy Code pipeline, Implementing AWS API Gateway with Lambda functions and connect to S3/RDS/Oracle (EC2)
<b>Project Responsibilities</b>	Working as a client facing architect in micro-service Java development. Handled WebLogic to AWS migration

<b>Project</b>	<b>Metlife - US Digital/Enterprise Online Store – Enterprise Online Store</b>
<b>Role</b>	Development Lead
<b>Duration</b>	Aug 2019 to December 2020
<b>Domain</b>	Insurance RIS - Retirement Income Service -EIS
<b>Technology</b>	Java, Springboot Microservices Netflix Stack, Swagger, Bitbucket, Git, Bamboo, Docker, UrbanCode, SOLR, Janus Graph, Hbase
<b>Project Description</b>	<p>Enterprise Online Store (EOS) is an API store which enables to the integration of various legacy systems through Big Data Lake and Raw Data Zone. RIS project implemented APIs related to the Retirement Income Services</p> <p>The framework consist with datalake, Apache Spark, Hbase DB, Apache SOLR index db, Gremlin Graph QLS, Spring Boot microservices based system API layer , Springboot Process API layer with business logic, and react based UI portal</p>
<b>Project Responsibilities</b>	Design develop and deploy the Retirement Income services system APIs in enterprise online store. Design and Configuring Spark to run jobs to get the data from data lake and storing in hbase, setting up Apachi SOLR to indexing hbase data, Implementing gremlin for query the data in Hbase and map them to API responses

<b>Project</b>	<b>NYL- Enterprise Integration Services</b>
<b>Role</b>	Technical Lead
<b>Duration</b>	Jan 2019 to Aug 2019
<b>Domain</b>	Insurance
<b>Technology</b>	Mule Soft, Apache Kafka, Data Wave 2.0, Java, Spring boot/Microservices, AWS, SOAP, REST



<b>Project Description</b>	EIS is an API lead service centric platform which was developed on premises filled with various business features for the insurance domain. Working experience with projects based on the Cash management functionality in new businesses and the generic transaction API
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<b>Project</b>	<b>Healthfirst Health Information Exchange</b>
<b>Role</b>	Health Integration Architect – Integrating 10+ hospitals to Healthfirst Clinical information system
<b>Duration</b>	Oct 2017 to Dec 2018
<b>Domain</b>	Healthcare /Health Insurance
<b>Technology</b>	Intersystem Healthshare/Cache database/ensemble/ GIT/ Atelier java Cache JDBC, Oauth, SOAP, Mule, HL7 V2, HL7 V3, CCD, REST
<b>Project Description</b>	Project scopes with handling live member/encounter pharmacy/HL7/CCD feeds from various providers in NYC. Integrate external EMR systems and internal AWS/MHS data engines using comprehensive Edge gateway architecture that comes with Intersystem Healthshare technology stack.

<b>Project</b>	<b>Information and Communication Technology Agency (ICTA) eServices implementation</b>
<b>Role</b>	Team Lead/Associate Architect – Micro-services platform development and business services implementation
<b>Duration</b>	Dec 2016 to June 2017
<b>Domain</b>	Miscellaneous

<b>Technology</b>	<p>Micro-services Netflix Stack (Eureka, API Gateway Zuul, Cloud Config, Circuit Breaker - Hystrix, Monitoring - Turbine)</p> <p>Front end –Angular 2, HTML5</p> <p>Framework – Spring Boot, Spring REST, Spring Data, Mongo Repository, REST template</p> <p>Back End –Mongo DB</p>
<b>Project Description</b>	<p>The project consists of platform migration of eServices infrastructure in ICTA. ICTA is responsible for providing interfaces to expose government services as electronic-based services to the general public. Eg eRevenue Licence service offers a web-based system for the general public to renew vehicle revenue licenses. These implementations consist of payment gateway implementations and Notification service integrations as well. The project team included 13 software engineers and 7 QA Engineers.</p>

<b>Project</b>	<b>WSO2 Tech Ops</b>
<b>Role</b>	Lead Integration Specialist – Enterprise Service Bus DevOps
<b>Duration</b>	July 2015 to Dec 2016
<b>Domain</b>	Miscellaneous
<b>Technology</b>	Enterprise Integration, WSO2 ESB, API Server, Identity Server, ActiveMQ, RabbitMQ, IBM MQ
<b>Project Description</b>	<p>WSO2 TechOps project was responsible for providing support in the development, configuration, and deployment of various WSO2 integration components for their end customers. WSO2 Clients include eBay, Boeing, Mercedes Benz, Fidelity, and world-leading business organizations. DevOps team deployed in Virtusa, needs to attend, understand the technical use cases, analyze the problems/issues encounters, reproduce them if required, go through the code and diagnose the bugs, escalate them to the product teams, design and test solutions and finally articulating the solution with proper guidelines. WSO2 TechOps project contained three sub-teams named ESB, API Manager (APIM), and Identity Server (IS)</p>

## **Bsharp - Company profile (<https://www.vitalhub.com/>)**

Developer of electronic documentation solutions intended for healthcare, social services, and community care organizations. The company offers electronic health records (EHR), clinical documentation and assessment, and client case management software solutions along with business consulting and custom software development services, unlocking the value of data for clients to enable informed decision-making.

### **Bsharp - Total Duration - 3 years (2012 -2015)**

<b>Project</b>	<b>Bsharp Technology Center, BCare product</b>
<b>Role</b>	Tech Lead - Integration
<b>Duration</b>	July 2012 to May 2015
<b>Domain</b>	Health Care
<b>Technology</b>	Java, JSP, Spring Core, Spring JDBC, Spring Integration, Jboss DROOLS, HAPI, HtmlUnit, Groovy, NextGen. Mirth Connect, HL7
<b>Project Description</b>	Bcare is a healthcare product that provides capture, analyze, retrieve, and exchange data from hospital patients, long-term care residents, and social and community service clients through its various business components. More than 40% of long-term care centers and mental health care institutions in Canada use Bcare as their main patient assessment tool.

## **Mphasis- Company profile (<https://www.mphasis.com/home.html>)**

Mphasis is an India-based IT service company that provides infrastructure technology and applications outsourcing services, as well as architecture guidance, application development and integration, and application management services. It serves financial services, telecom, logistics, and technology industries

### **Mphasys - Total Duration 2 years (2010 to 2012)**

<b>Project</b>	<b>Mphasis Lanka Private Limited, Developing a customer portal for a Mobile Client</b>
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<b>Role</b>	Delivery Module Lead - Development
<b>Duration</b>	August 2010 to April 2011
<b>Domain</b>	Customer Care / Sales
<b>Technology</b>	Java, Liferay, Alfresco, Spring , portlet, Apache Lucence
<b>Project Description</b>	Project had 10 developers under the leadership of module lead in the offshore center and 5 developers and 5 QA engineers reside remotely. Project delivered a comprehensive customer portal for a leading mobile network company in Sri Lanka. The portal contained a Community portal, eCommerce portal, and content management system. The portal supported multilingual search and content loading.

### **Ebuilder- Company profile (<https://ebuilder.com>)**

Ebuilder is one of the leading providers of AI-based prediction solutions, Customer Care, Logistics, Procurement, Travel, and Enterprise Administration Systems enabling Global Enterprise Customers to grow their businesses and operate them efficiently.

The customer base includes some of the leading global companies and spans more than 70 countries and solutions are used by more than 500,000 end users. The corporate headquarters is in Stockholm, Sweden, with offices in the UK and Sri Lanka

### **Ebuilder- Total Duration 6 years (2004 to 2010)**

<b>Project</b>	<b>Logistics System, Ebuilder Technology Center</b>
<b>Role</b>	Senior Software Engineer
<b>Duration</b>	Nov 2009 to August 2010
<b>Domain</b>	Logistics and Supply Chain Management
<b>Technology</b>	Java, J2EE, Jboss, JMS, Oracle
<b>Project Description</b>	Project had 14 developers and 6 QA engineers. The logistics system was responsible to provide capabilities to place orders, route orders, and send the carrier's statuses back to the users.

<b>Project</b>	<b>Repair Return System for Optus , Ebuilder Technology Center</b>
<b>Role</b>	Senior Software Engineer
<b>Duration</b>	Nov 2009 to August 2010
<b>Domain</b>	Logistics and Supply Chain Management
<b>Technology</b>	Java,JSP, AJAX, J2EE, Jboss, JMS, Oracle
<b>Project Description</b>	<p>Optus was the second largest mobile network company in Australia.</p> <p>The project had 18 developers and 8 QA engineers. The system offers to provide capabilities to place repair orders and provide a dashboard to the end users with status.</p>

<b>Project</b>	<b>Dynamic workflow for Supply Chain system, Ebuilder Technology Center</b>
<b>Role</b>	Senior Software Engineer
<b>Duration</b>	Dec 2007 to August 2008
<b>Domain</b>	Supply Chain Management
<b>Technology</b>	Java, JSP, AJAX, J2EE, Jboss, JBPM, JMS, Oracle
<b>Project Description</b>	<p>Project had 10 developers and 4 QA engineers. The system was capable to create workflows based on the callback functions which call the business APIs.The project was done in the Ebuilder head quartos located in Stockholm.</p>

<b>Project</b>	<b>Logistic systems for Swedish clients Alfa-Laval, Ebuilder Technology Center</b>
<b>Role</b>	Software Engineer
<b>Duration</b>	Dec 2004 to August 2007
<b>Domain</b>	Logistics and Supply Chain Management

<b>Technology</b>	Java, JSP, AJAX, J2EE, Jboss, JMS, MySql, Oracle
<b>Project Description</b>	Alfa-Laval was Sweeden based logistic company handling goods transportation in Europe. The project had 20 developers and 10 QA engineers. The Logistics system was responsible to provide capabilities to place orders, make transport orders, order items, packages, consignments, pallets, route orders, generate load lists, and send the carrier statuses back to the users.