

# CURRICULUM VITAE

## PREFER WORK FROM HOME – CAN ATTEND ADHOC MEETINGS IN OFFICE ON DEMAND

### SARAVANAN

TECHNOLOGY CONSULTANT | SOLUTION ARCHITECT | JAVA ARCHITECT

#### EXECUTIVE SUMMARY

Over 20 years of experience in IT industry, driving team on the technology front. A true thought leader, and an expert in complex distributed systems, high performance applications, cloud computing, data integration, service oriented architecture (SOA), and big data systems.

A strategic technocrat, vision of building high energy teams, setting up robust processes, and finding optimal solutions to deliver business value are core strengths. Have worked with IT majors like HCL and WIPRO and has consulted for more than 10 global customers in Banking and Insurance companies like Commonwealth Bank, Libereta Financial Services, Deutsche Bank, Standard Chartered Bank etc., in UK, Middle East and Asia regions

Founded Tech start-up during 2012 and drive the organisation on the technology front till 2017. Supported and mentored various start-up customers across world to accomplish their technology goals

#### TECHNICAL EXPERTISE

- Strong ability to identify, build, and implement software solutions to complex business processes or problems, it could be custom solution or a product. Involved from Due Diligence, Requirements gathering, System Architecture and Design, Development and Support phase of SDLC processes with CMMi practice
- Good exposure to Database Modelling, Design and Programming. Creation of various data models like conceptual, logical and physical and create scripts from the model for the target database
- Consulting Experience in Solution Development, Legacy Modernization, Technology assessment and recommendation
- Strong experience in Web and Mobile Application development using JEE (Spring Stack, Hibernate), Enterprise JavaScript (Node.js, Angular.js, Vue.js), Native and Hybrid Mobile stack. Serverless and stateless application development using various tech stack
- Container based highly horizontally scalable applications development and implementation using Docker and container orchestration Kubernetes.
- Experience in working on various public clouds like Amazon AWS, Microsoft Azure, Bluemix and Google cloud. Hands on working with all the AWS tools and services like EC2, Auto Scaling, Elastic Load Balancing, VPC, S3, Glacier, EBS, Amazon RDS, Dynamo DB, Cloud Formation and Route 53
- CI/CD and Infra automation using Jenkins, Chef, Puppet, Terraform, etc. Experience in setting up DevOps infrastructure for Greenfield projects.
- Focusing on Blockchain, AI/ML, Big Data IoT and fill the gaps in BFSI to adopt the latest technology stack

#### PROJECT MANAGEMENT EXPERTISE

- Handled team of 100+ resources.
- Experience in managing both FPP, T & M projects with CMMi practice.
- Good experience in Project Management lifecycle includes Presales, RFP, RFQ, Estimation, Project Governing, Risk Management, Tracking and Monitoring
- Conducting project team / status meetings regularly with the team and with the clients.
- Tracking project performance against planned Schedule and Effort.
- Measuring project performance, progress and forecasting to client and proven ability to work in unison with teams and business owners

## CAREER SUMMARY

| Designation                      | Organisation                  | Period             |
|----------------------------------|-------------------------------|--------------------|
| Technology Consultant, Architect | N/A                           | Jan '18 – Till now |
| Director, CTO                    | GNTS Technologies             | Jan '14 – Dec '17  |
| Solution Architect               | HCL Technologies, Chennai     | Dec '03 – Dec '13  |
| Technical Lead                   | Wipro Technologies, Hyderabad | May '01 – Nov '03  |
| Sr. Developer                    | HCL Infosystems, Chennai      | Sep '97 – Apr '01  |

## TECHNICAL SKILLS

|  |  |  |
|--|--|--|
| <b>Database and Architecture</b><br>Oracle, MSSQL, MySQL, NoSQL (Mongo, Cassandra, Arango), Oracle APEX, etc., | <b>Application Architecture</b><br>Client Server, MVC, MVVC, Serverless, Stateless, Container Based, Horizontal Scaling Apps, etc.,              | <b>Server Side Technologies</b><br>Node.js, PHP, Python, Go, TypeScript                            |
| <b>Java and JEE Stack</b><br>Spring, Struts, Hibernate, EJB, Vaadin, Dart, Tomcat, Glassfish, JBoss, etc.,     | <b>Data Modelling and Migration</b><br>Erwin, Oracle Data Modeller, ER/Studio, Informatica, Talend, Pentaho, etc.,                               | <b>Client Side Technologies</b><br>JavaScript, Angular.js, React.js, Vue.js, HTML, CSS, SAAS, LESS |
| <b>Mobile Technologies</b><br>Android, iOS, Ionic, Flutter   | <b>Application Security</b><br>Spring Security, Shiro, OWASP   | <b>Enterprise Reporting</b><br>Jasper Reports, Pentaho, Cognos BI, ELK                             |
| <b>Cloud &amp; Monitoring</b><br>AWS, Azure, Google, Open Stack, Dynatrace, DataDog, Icinga2, Nagios           | <b>Middleware &amp; Messaging</b><br>IBM MQ, Rabbit MQ, Redis, Mule ESB, etc   | <b>DevOps, CI/CD</b><br>Jenkins, Ansible, Chef, Docker, Kubernetes, Bamboo, Harness                |
| <b>Testing Framework</b><br>Junit, JMeter, Jasmine, Mocha, Karma, Jest, Enzyme, NSP, OWASP                     | <b>Open Stack and Other Tools</b><br>Alfresco, Selenium, Junit, Jmeter, NPM, Grunt, Git, SVN, Bower, YML, Yeoman, Underscore, Gulp, Webpack, etc | <b>Legacy</b><br>Dbase, FoxPro, Pro C, Oracle Forms, Reports, COBOL, Perl, ColdFusion, Informix    |

## GNTS PROJECTS SUMMARY

- Solution Architect for Tech start-ups and SaaS product development in Cloud infrastructure
- Consulted for Retail, Financial, Realtor industry
- Understand the business requirements come up with Application architecture, Security architecture, Infrastructure architecture and automating the build, test and delivery process.
- Extensively worked on JEE, Node based enterprise application architecting and successfully rollout 4 products
- Responsible for reviewing technology artefacts from the development team and provide inputs.
- Responsible for reviewing and finalizing the Infrastructure design in the AWS cloud, which will part of cloud eco-system that is being planned
- Responsible for setting up Jenkins, Cloud formation (AWS) for CI & CD wherever required

### Key Customers:

TANGEDCO, TNSET, EasyJobs, Employ, Freshorders, Lyca, Prominace, CloudMatiq, IndiaStatix, Fleetwell, GLV, News360, etc.,

**CLOUD SOLUTION DEPLOYMENT MANAGER (CLOUDMATIQ, UK)**

**May '18 – Till now**

CSDM is multitenant SaaS application to deploy and manage the large multi cloud infrastructures.

It is designed to simplify the deployment and operations of both network and application infrastructure. Once you deploy a solution, it will automatically scale, it will be automatically monitored and will also integrate automatically with your central monitoring solution and other systems.

CSDM will reduce deployment and operational costs by an estimated 40%-60% with some cases peaking upwards 80%. You can seamlessly integrate your workflows from sales and presales to deployment and operations of solutions thanks to CSDM design, which is based on real customer needs and gathers for standard enterprises as well as service providers, integrators and channel partners. Imagine your operations on steroids.

**Environment:** Express JS, React JS, Node.js, TypeScript, Swagger, MySQL, AWS, GCP, OpenStack, Terraform, Icinga2, Grunt, Jenkins, Enzyme, JSON, AWS Linux, Putty

**Role:** Solution Architect

**INGO ERP (STEBUP INNOVATIONS LAB, INDIA) *Dec '17 – Till now***

Ingo ERP is set of business apps like Inventory, CRM, eCommerce, HRM, etc specifically to meet the requirements for MSME business. This is cloud based SaaS application, the business can be get onboard just in few click and start using.

Each module running on its own Docker containers and it can scale horizontally to meet the performance requirements.

Inter application communication and sessions are managed by Redis, Afresco is used for document and image storage and retrieval, ELK for the logs, Jenkins for CI/CD.

**Environment:** Angular JS, Node JS, Express JS, MySQL, Cassandra, AWS, HTML5, CSS3, Docker, Alfresco, Redis, ELK, Elastic APM, Jenkins, Git, Mocha, Jasmine

**Role:** Architect, Micro services Development.

**FRESHORDERS (INDIA) *Mar '17 – Apr '18***

Freshorders is an order management and salesforce automation mobile application. The application is mainly focusing to address the gap in Manufactures, Distributors, Salesforce and Retail outlets. This has Web and mobile interfaces, delivered as SaaS application.

Some of the key features of the application is Order management, Inventory at all levels of a product, Beat Management, Sales force tracking, Payment collections, Travel and Expense management, etc

**Environment:** React JS, Node JS, Express JS, Loopback, MySQL, AWS, HTML5/CSS3, Git, Android, Enzyme, Jest

**Role:** Lead Architect and Developer, Full stack

**LYCA TV – VIDEO CALL STB APP (UK) *May '17 – Sep '17***

Video calling App for Lyca TV set top box (STB). Lyca customers call make Video and Audio calls from Lyca mobiles to Lyca TV STB and provide similar experience of Skype

- STB Android App
- Android and iOS App for Lyca Mobile users
- Java API for intercommunication with Media Server and Calling App
- Java API for validating and managing customer details

**Technologies:** Java EE, Kurento WebRTC, Android, Rabbit MQ, Maven, Spring MVC, Hibernate, Junit, Selenium, JMeter, MySQL

**Role:** Solution Architect

## INDIASTATIX

*Aug '16 – Feb '17*

Indiastatix is Enhanced Data Visualization for DStats by implementing Pentaho BI. This project build the portal and integrate the data visualization reports using the data dumps provided by the various departments for Government of India. Database development also includes storing user's own data which will be used to create his own style of reports. User's data should be in range of allowed number of columns, rows and size (number & size yet to be decided).

Reports built in Pentaho can be accessed using the web or mobile. This application is delivered as a solution to the various industries who needs data and option to explore the data in various dimensions.

The Indiastatix have the following modules,

- Membership Module
- Admin Module
- Payment Module
- Pentaho BI Report

**Environment:** MySQL, Express, React JS, Node.js, Mocha, Chai, Pentaho(BI) Server, Rabbit MQ, XML, JSON, Ionic

**Role:** Architect, Pentaho Integration

## ONLINE APPLICATION PROCESSING (TANGEDCO, GOVT OF TN, INIDA)

*Feb '16 – Jul '16*

The web application is developed to accept the applications from the public for the various openings in the Tamilnadu electricity board. This application has highly customizable custom forms as the inputs are different for the each vacancies are different.

Also the applicant to should can and attach the document evidences. The web application processed million applications in 10 days window period. Some of the core features are Registration, Exam Center allocation, Hall ticket printing, Online payment, Bank payment reconciliation, MI reports, etc

**Environment:** Angular JS, Node JS, Express JS, MySQL, AWS, HTML5/CSS3, Git, Linux, Load Balance, Apache, AWS Auto scaling

**Role:** Architect, Lead Developer

## GUIDELINE VALUE (INDIA)

*Mar '15 – Dec '15*

GLV is a web and mobile application to show the guide line value of the properties across India in the first phase, and displays the properties available for sale which are nearer to search locations in the Google Maps.

**Environment:** Angular JS, Node JS, Express JS, MySQL, HTML5/CSS3, Git, Android, iOS

**Role:** Architect, Node Developer

## HCL PROJECTS PROFILE

## CONSULTING PROJECTS

*Sep '12 – Dec '13*

As a Solution Architect consulted for various global BFSI customers for implementing large Banking development and migration projects

- SBI – Development and Implementation Architecture for SBI General CIS – Java Based Solution
- HCL – Overall Architecture for Insurance policies migration Platform – Informatica and Java Solution
- ANZ – ETS Reporting platform migration for ANZ – Java Based Solution
- CBA – DMMS (Money Market) - System & Technology rewrite proposal using Oracle & MS.NET.
- Fiserv – Technology Improvement on CWSi client experience product
- NIBC – Database migration solution from Sybase to MSSQL

## **AMARTA LIFE AND PENSION SYSTEM**

*Jul '10 – Sep '12*

ALPS is the core policy administration system of HCLIBS. ALPS is structured around 'Lifecycle's and standard Work flow principles. There are about 175 lifecycles. Amarta uses a sophisticated diary event system to make sure all the regular events are handled on time, for example, monthly charges, annual reviews and dividend distributions etc. The batch scheduler enables checks to be made every day for events that are now due.

HCLIBS won a major migration and services contract from ELAS (Equitable Life Assurance Society) who is managing more than 5 million Closed Book policies for its various clients. At present LBG (Lloyds Bank Group) providing the services and maintaining the policies. As part of this program HCL do the Data migration and enhancements for ELAS from LBG to ALPS and administer the policies from ALPS. Currently managing Correspondence and Interface work streams which are part of this program.

“Correspondence” document is end result of any changes made to the policy based on client request or automated events. ALPS support two types of documents generation, Legacy - proprietary framework of ALPS and Cincom Eloquence.

As part of Interface development, new feeds are being developed using Java threads, which will feed in and out the data to ALPS and other external system.

**Environment:** Informix, 4GL, Java, .NET, SQL Server, Cincom Eloquence, AIX Unix, Shell Scripts.

### **Roles:**

- Technical Manager. Handling a team of 22.
- Involved in Design, Managing Development and guiding team in technical front.
- Project Planning, Execution and Reporting.
- Reviewing Deliverables.
- Management Reporting.

## **STREIGHT2BANK (S2B)**

*Aug '09 – Jun '10*

Straight2Bank is the Internet banking channel for Standard Chartered Bank's Corporate and Institutional Customers for reporting and transaction initiation. It combines convenience and security in one comprehensive and easy to use platform. Straight2Bank Web users have access to Cash Management, Custody and Continuous Linked Settlement Solutions as well as Trade, Lending and FX information that leverages on Standard Chartered Bank's extensive international network.

As part of the FX+ Project, users will be given an option to request for quote online to make cross-currency payments. The new FX flow will be available to all Customers registered in Straight2Bank, but the functionality will be controlled by appropriate Functional Access Profile (FAP).

**Environment:** Oracle 10g, J2EE, Websphere 5.1, Cameron FIX Universal Server, XFW framework, Shell Scripts etc.

### **Role:**

- Technical Architect. Handled a team of 13.
- System Study, Analysis, Design and Managing Development and Delivery.
- Planning and Execution.
- Resolve technical issues.

- Management Reporting.

## LASER

Oct '07 – Jul '09

LASER is the name of the engagement between HCL and DB with a portfolio of 162 IB Ops applications. Out of 162, there are 4 applications supported for Sydney region as follows.

- ETAS
- MIS
- Lotus Notes Distributor
- Cheques and Warrants

**Environment:** Oracle 9i, Core Java1.4, Hyperion Reports, Progress Scripts, Shell Scripts, Lotus notes Scripts, MS Access, Power Builder etc.,

Furthermore below tools are developed for the engagement.

- LASER Portal
- Remedy JIRA Interface

**Environment:** Oracle 9i, J2EE, Webservice, ASP .NET, C#, SQL Server.

### Role:

- Technical Lead, Handled a team of 6
- System Study, Analysis, Design and implementing the above tools
- Task allocation
- Resolve technical issues
- Management Reporting
- Participating on DB KT sessions (In Sydney)

### Appreciations:

The LASER portal has been appreciated by the top management for its design, information about the engagement and MI reporting sections.

## GLOBAL CASH MANAGEMENT SYSTEM

Jun'04 – Sep'07

GCMS is the cash management infrastructure of choice for the bank. GCMS Overall Objectives include the following:

### Nostro Management

- Create transparent and fully accountable nostro management process.
- Minimize balances in nostro accounts.

### Exceptional Funding Cost Allocation

- Create cash funding cost allocation process that results in fair allocation of all cash funding costs.
- Create transparent and fully accountable nostro interest allocation process.

### Cash Management Information

- Create total transparency in uses and sources of cash within the bank
- Provide comprehensive cash forecasting infrastructure across the bank

GCMS is based around a three-tier WEB application with a WEB-based client, a middle tier WEB server and a backend database. Data is loaded into the backend database on a 24 hour basis by various feed components. MQSeries and dBus are the middleware being used to receive and send data. This data comprises Trade and Cash flow information, SWIFT data (MT202, MT210 and MT950) and Payment information. The browser based front end provides the user with the ability to view this information, to input manual data, perform static data maintenance and to perform the reconciliation process

### Environment:

Java, Oracle 9i, Tomcat 5.5, JSP, JMS, MQ Series, dBus, AIX, Sun Solaris, CVS, SQL Navigator and Lotus.

### Onsite Role:

Worked as Technical lead for Deutsche Bank and my role involves below,

- Requirement gathering from business in London & Frankfurt
- Requirement analysis
- Design and effort estimation
- Development, UAT and release
- Providing L3 support and coordinating with offshore team

**Achievements:**

- Tuned the application performance significantly.
- No schedule deviation in the deliverables
- Key player of the team
- Achieved a CSI of 4.93/5

**Offshore Role:**

- Team Lead, Handled a team of 7
- Monitoring application
- Providing L1 and L2 support
- Adhoc reports to business users on request basis
- Enhancements & bug fixes
- Managing team and Shift allocation
- Daily reports to customer

**DBCUBE**

*Dec '03 – May '04*

The dbCube framework was developed to provide different departments within Deutsche Bank with a possibility to leverage their relational data via an automated process into dbIntranet. Therefore, a flexible system was created, which is based on a 3-tier architecture, one of which to be installed on the data source system. The core part is kept in Oracle, however the dbCube framework also utilizes an OLAP database ("Hyperion Essbase") to pre-calculate high aggregated values and to allow rapid slicing and dicing for easier data analysis.

**Environment:**

Java, JSP, Tomcat 4.0, Oracle 9i, Essbase, AIX, Eclipse, Alphablox, Actuate Reports, JBoss, JRun, CVS, SQL Navigator and Lotus Notes

**Role:**

I've been worked with a team of 17 for providing the support to the project. My role involved below,

- Providing L3 support
- Customer interaction, Requirement analysis and design.
- Coding in PL/SQL
- Cube export/import, changing hierarchies, performing calculations etc.

**OTHER KEY PROJECTS**

**GEMINI (WIPRO TECHNOLOGIES)**

For NT & T, UK (formerly called as TRANSCO, UK)

Gemini is rewriting of existing application which has developed in Oracle and D2K into J2EE component based architecture. Gemini is an application specifically developed for gas industry. It has involving in conducting various auctions and contracts in entry & exit side of the pipeline. Winning shippers can be able to flow the gas through the pipeline.

**Role:** DBA, Development and Testing.

**Environment:**

Reports 6i, J2EE, SQL, PL/SQL, Oracle 9i, Windows NT, HP-Unix and Clear Case.

## **RGTA LINK (WIPRO TECHNOLOGIES)**

For NT & T, UK (formerly called as TRANSCO, UK)

The project deals in Reform Gas Trade Agreement (RGTA) for NT & T, UK. This deals with shippers who ship the gas, using the Transco pipelines to transport them. For this, Transco auctions the capacity of gas to be shipped through the pipelines and the shippers have to bid for it.

**Role:** Design, Development, Testing and UAT Support.

**Environment:**

Forms 6i, Reports 6i, SQL, PL/SQL, Oracle 8.1.7, Windows NT, HP-Unix, and Visual Source Safe.

## **PRODUCTION PROCESS SYSTEM (HCL INFOSYSTEMS)**

For HCL Peripherals – A Unit of HCL Info systems Ltd, India.

This system is developed to computerise the production process of computer manufacturing industry and successfully implemented in various plants of HCL Peripherals, India. Bill of Material contains the information's about the various subassemblies used for a particular product; with these details a product is assembled. Based on work order, number of products produced and goes under various testing. After successful QC, product goes to stores. From stores, based on PO goods are delivered.

**Role:** Analysis, Design, Development, Testing & Implementation.

**Environment:** Forms 6i, Reports 6i, SQL, PL/SQL, Oracle 8.1.5, SCO-UnixWare and Visual Source Safe.

## **PAYROLL MANAGEMENT (HCL INFOSYSTEMS)**

For HCL Peripherals – A Unit of HCL Info systems Ltd, India.

This system developed to handle all the HR activities starts from employee recruitment, assigning department, capturing attendance details, capturing leave, LWP, IT details, salary process, payroll, payslip generation, settlement and other various reports.

**Role:** Design, Development, Testing & Implementation.

**Environment:**

Forms 6i, Reports 6i, SQL, PL/SQL, Oracle 8.1.5, ASP 3.0, IIS 5.0, VB Script, Java Script, SCO-UnixWare and Visual Source Safe.

## **SALES & SUPPORT MANAGEMENT SYSTEM (HCL INFOSYSTEMS)**

For HCL Peripherals – A Unit of HCL Info systems Ltd, India.

This system developed to facilitate the sales and support department activities. Order registration, Order approval, goods delivery, stock maintenance and all sales activities are tracked & monitored. Support department comes to picture if any problem reported by the customers. System accepts the compliant details and its monitored until it reaches a closure point. It allows generating various reports.

**Role:** Development, Testing & Implementation.

**Environment:**

Forms 6i, Reports 6i, SQL, PL/SQL, Oracle 8.1.5, ASP 3.0, IIS 5.0, VB Script, Java Script, SCO-UnixWare and Visual Source Safe.