

# ANANTHA NARAYANAN SUNDARARAJAN

ananthu.narayanan@gmail.com

## Current Employment:

**Cloud Architect**  
**DBS Bank Singapore Ltd**

## Professional Summary

- TOGAF certified accomplished Architect with 17+ years of experience in IT in the area of Software Development and Architecture
- Proven experience in Application Architecture specialization: Cloud Native application development, Service Oriented Architecture, Micro Services design & Implementation, Integration Architecture, Cloud Solution Design
- Rich experience and expertise in end to end development of strategic and Enterprise scale projects
- Strong technical expertise in Spring, JAVA, J2EE and Oracle related technologies
- Accountable for Business Delivery in collaboration with Project Management, Cloud teams.
- Onsite experience in countries like Singapore, UK, Germany and US.
- Design, architecture and oversee the execution of strategic projects
- Expert knowledge in Electronic licensing domain.
- Rich experience working in a Global Environment
- Excellent Communication Skills

## Competence on Software

<b>Languages/frameworks</b>	JAVA, J2EE, JSP, Struts, Spring framework (core, boot), REST, XML, JSON
<b>Databases</b>	Oracle MYSQL
<b>Domain Expertise</b>	Electronic Licensing (Entitlement management), Banking ( <b>Fixed income trading</b> ), E-security (PKI)

## Employment Details

From	Till	Name of Company	Designation
Mar-2017	Till date	<b>DBS Bank Singapore Ltd</b>	<b>Cloud Architect</b>
Apr-2016	Feb-2017	Capgemini Singapore Pte Ltd	Cloud Native Architect
Jul-2014	Mar-2016	EMC Software and Services LTD	Consultant Architect
May-2013	Jun-2014	EMC Software and Services LTD	Principal Architect
Jan-2009	Apr-2013	EMC Software and Services LTD	Principal Application Developer
Sep-2002	Dec-2008	HCL Technologies Ltd, Bangalore.	Project Leader
Nov-2001	Aug-2002	Tarang Software Technologies LTD, Bangalore.	Senior Software Engineer Software Engineer
Jan-2000	Oct-2001	Odyssey Technologies LTD, Chennai.	Associate Engineer-e-security Programmer

## Educational Qualifications

Year	Name of Degree	Name of Inst.	Percentage	Place
1999	B.E	Mepco Schlenk Engg College	73	Sivakasi
1995	HSLC	M.D.T Higher Sec School	85.33	Tirunelveli
1993	SSLC	M.D.T Higher Sec School	80	Tirunelveli

## Awards

## **ANANTHA NARAYANAN SUNDARARAJAN**

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Excellence @ EMC – Gold award – Oct 2015

### **Projects done in DBS Bank Singapore Ltd (From Mar 2017 to till date)**

#### **1. Cloud Architecture – Mar 2017 – till date**

**Technologies:** Spring, Workflow processing with Java and PCF, Micro services, Pivotal Cloud Foundry

Currently working as a cloud architect in DBS Core System Technology (CST) team responsible for architecture, design and overall guidance for strategic projects in multi-cloud (private/hybrid). In addition to projects, I was also working on long term architecture initiatives.

Highlights:

- Cloud architect responsible for multi-cloud such as PCF (private) and AWS (public) projects
- Evaluation and solution of BPMN based workflow processing system Camunda in Pivotal Cloud Foundry (PCF)
- Responsible for architecture, Proof of Concepts (POC), architecture artifacts
- Mentorship of resources in cloud technologies

**Roles and responsibilities:** Cloud Architect

### **Projects done in Capgemini Singapore Pte Ltd (From Apr 2016 to Feb 2017)**

#### **2. Singapore Power – Full Retail Competition (FRC) – Apr 2016 – till date**

**Technologies:** Spring, HTML5, CSS, Bootstrap, Micro services, Pivotal Cloud Foundry

FRC (Full Retail competition) is a utilities based project which enables household and more commercial consumers to choose from whom they wish to buy electricity in addition to Singapore Power.

Highlights of the project:

- Responsible for end to end solution
- Single point of contact for all PCF related items
- Responsible for architecture, Proof of Concepts (POC), architecture artifacts
- Providing guidance to developers and dev leads
- Micro service Architecture
- Embracing PaaS using Pivotal Cloud Foundry (PCF)
- Support product owners to arrive at the product roadmap and backlog
- Continuous build using Jenkins
- Rich responsive User interface
- Total Customer Experience – Enhanced Licensing Portal

**Roles and responsibilities:** Cloud Native Architect

### **Projects done in EMC Software and Services Ltd (From Jan 2009 to Mar 2016)**

#### **3. Transformational eLicensing Solution (TeS) – Aug 2014 – Mar 2016**

**Technologies:** Spring, HTML5, CSS, Bootstrap, Micro services, Pivotal Cloud Foundry

Transformation eLicensing Solution (TeS) is an EMC strategic program to enable customers with standardized eLicensing experience through end to end process automation.

Highlights of the project:

- Application/Solution architect in multiple focus areas
- Micro service Architecture
- Domain driven design
- Embracing PaaS using Pivotal Cloud Foundry (PCF)
- Support product owners to arrive at the product roadmap and backlog
- Continuous build using Jenkins
- Rich responsive User interface
- Total Customer Experience – Enhanced Licensing Portal

**Roles and responsibilities:** Application and Solution architect

#### **4. Electronic License Management System (ELMS) - May 2013 – Jul 2014**

**Technologies:** JAVA, J2EE, JSP, Spring framework, REST

The main goal is to enable majority of EMC flagship products such as Symmetrix, VNXe, and Networker etc. to be license enabled via ELMS.

The solution consists of SDK (library) and a back office application (web portal) for activation of licenses.

Highlights of the project:

- Worked on developing architecture for the major strategic projects namely SWUID enablement, Symm new releases and Nile projects.
- Major contribution to design, development in collaboration with Enterprise architects.
- Worked in standardization and use of standard tools in build and automation.
- Instrumentally involved in stabilization of performance

**Roles and responsibilities:** Application and Solution architect

#### **5. Electronic License Management System (ELMS) - Jan 2009 – May 2013**

**Technologies:** JAVA, Oracle PL/SQL, JSP, Struts framework, .NET, ASP, VSS

This project involves maintenance and enhancement of system ELMS. This system is used by EMC's flagship products such as Symmetrix, VNXe, and Networker etc for license activation. The solution consists of SDK (library) and a back office application (web portal) for activation of licenses. The main goal is to enable majority of EMC products to be license enabled via ELMS.

Highlights of the project:

- ModusLink's entitlement management (<http://www.moduslink.com>) solution Poetic is used
- Customization and new "ground up" solutions written on top of Poetic.
- Lite touch & normal touch available for license activation.
- File based & static key based license generators.

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**Roles and responsibilities:** Dev Lead

### Projects done in HCL Technologies Ltd ( From Sep 2002 to Dec 2008)

#### 6. Finearts

Mar 2005 – Dec 2008

**Client**

Deutsche Bank, Frankfurt

**Technologies**

Oracle PL/SQL, JAVA, Swing, JDBC, UNIX shell scripting, Perforce

This project involves maintenance and enhancement of product Finearts. This is an interface between a third party product Bloomberg TOMS (Trade Order Management System) and dbTrader. Finearts facilitates settlement of trades entered in Bloomberg by doing filter, validation, data consistency, transformation and enrichment. The main goal is to minimize volume of trades requiring manual intervention.

Highlights of the projects:

- Exists since 1998
- Cost and efficient implementation of business requirements
- Approximately 6500-7500 transactions are processed per day

**Roles and responsibilities:** Lead developer.

#### 7. Spider

Jul 2003 – Feb 2005

**Client**

Deutsche Bank, Frankfurt

**Technologies**

Oracle, UNIX, Perforce

Spider is a vital part of the Fixed Income Trading system and is installed at all DB sites worldwide mainly London, Frankfurt, New York and Tokyo. As a technical support staff, I was fully involved in troubleshooting production fixes, deploying, configuration and testing the production fixes, enhancement and development (Creation/Modification in Mapping, SPL scripts, feed files, views and creating new tables).

**Roles and responsibilities:** Developer

#### 8. FX+

Sep 2002 – June 2003

**Client**

Deutsche Bank, London

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### Technologies

Unix (Solaris) , JAVA , Oracle, CVS

Involved in developing Order management module for DB London in Phase 2. This module was totally based on Forex Trading. As an enhancement I was fully involved in developing the order requesting functionality. As a configuration manager I was involved in setting up the CVS repository.

A Java based application server that enables online user to enter and execute orders Level 1, being Deutsche Bank, order routing and requesting done up to Level 3. Out-of-office feature for trader

**Roles and responsibilities:** Developer, Configuration manager, Troubleshooter

### 9. Tarang Technologies Ltd - Account Aggregation Solution – Offline Aggregation and Site Change Detector

Jan 2002 – Aug 2002

#### Client

HP

### Technologies

JAVA, weblogic, XML, JDBC, EJB, Oracle

Offline Aggregation, the integral part of Tarang Account Aggregation Solution aggregates user's different bank account details from bank site in offline fashion. Site change detector, another integral part of Tarang Account Aggregation Solution, checks whether bank's sites such as Citibank, HDFC are not available, it takes action immediately according to configured data.

1. Developed as a stateless session bean that communicates to Account providers
2. XML is used extensively as request-response data structure
3. Alerts like deposit and withdrawal with amount more than configurable limit is provided

**Roles and responsibilities:** Designer and Developer.

### 10. Tarang Technologies Ltd - Closed Group Wireless Payment Systems

Dec 2001-Jan 2002

#### Client

HP

### Technologies

Palm OS, Falch.net IDE, JAVA, JCE, 3DES

Registered Users can perform a secure transfer of funds using their palm devices coupled with a mobile terminal/cell phone to any of the registered users in the group. Secure transfer of funds is enabled via encrypted and electronically signed payment data sent over Infrared from the palm device as a SMS in accordance with GSM specifications

- Secure transfers of funds between users of a closed group
- Payment from mobile devices like palm, Iraq and mobile phones
- 3DES based Symmetric Encryption  
SHA-1 for generation and verification of digital signatures

**Roles and responsibilities:** Developer

**11. Odyssey Technologies Ltd - Certification Server****June 2000 – Jul 2001****Client****IFFCO & HDFC****Technologies**

Unix ( Redhat Linux &amp; Solaris) , C , Multithreading, IPC, Oracle, crypto library, SSL

The certification Authority server is all standards complaint, policy driven with support for commercial strength RSA, DSA and DH keys. Certificates generated are fully complaint with X.509 v3 standard. It provides secure Inter-process communication using SSL. Multiple requests from RA can be served by using Multithreading.

- A robust, **multithreaded** and reliable application server
- Extensive use of **IPC mechanisms like Sockets, Named pipes**
- Secure **Inter-process communication** using Secure Socket Layer (SSL)
- Certificates can be issued in ASN1, PEM, PKCS#7 or PKCS#12 depending on CA policy

**Roles and responsibilities:** Designer / Developer.

**12. Odyssey Technologies Ltd - Registration Server****Jan 2001 – Jul 2001****Client****IFFCO & HDFC****Technologies**

Unix ( Redhat Linux &amp; Solaris) , C , Multithreading, IPC, Oracle, crypto library, SSL

Registration Authority serves as user interface to Certification Authority to get, renew, and revoke certificates. It communicates to Certification Authority using Secure Socket Layer (SSL). User can use web interface or Windows SDK interface to get certificates. Windows SDK Interface has the authentication and authorization for the various levels of operators and administrators.

- Certificate based authentication with the CA
- Multiple Access Interfaces - Direct, Web and e-mail
- A robust, multithreaded and reliable application server
- Extensive use of IPC mechanisms like Sockets, Named pipes

**Roles and responsibilities:** Developer.

**Personal Details:**

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Passport No.	J9334859	Valid Up to: 2011 – 2021
Type of Visa holding (if any)	US B1	Valid Up to: 2009—2019
	Singapore Employment Visa	Valid Up to: 2017 – 2019
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