Vignesh Murali Natarajan

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An accomplished IT Architect specializing in a multi-faceted approach to career progression and drive for excellence. A seasoned veteran with proven track records as a – **Cloud Architect, Legacy Modernization Specialist, R2 Expert, Delivery Lead, Developer, Technical Trainer, Perpetual learner** - seeking new challenges and opportunities beyond familiar horizons

Experience Summary

Cloud Architect / Enterprise Architect

- Highly accomplished Cloud Architect with extensive experience in conducting Cloud Readiness Assessments, creating cloud service maps, and overseeing security considerations as part of wider Cloud Adoption Framework.

- Proficient knowledge of cloud computing technologies and current computing trends. Accomplished in managing large teams right from requirements through design, implementation & deployment. Excellent analytical, organizational, planning skills with demonstrated abilities in training & mentoring teams towards achieving organizational goals

- A charismatic architect, certified by multiple organizations in various disciplines – Cloud, Enterprise architecture, DevOps, with first-hand experience in assessing, planning, strategizing and executing large scale cloud migrations clubbed with legacy modernization.

- Specialist in designing Cloud based complex high-scale, high-availability enterprise-grade Software systems, Cloud Platforms and DevOps

- Highly experienced in designing Microservices based platforms that demand inter service choreography using message queues and service-mesh based inter service communication

- Was the architect for bulk migration of 25+ applications of the Smart Meter Infrastructure portfolio of Next Era energy. A few noteworthy feats achieved in the projects are

  o Large scale cloud migration with various concurrent migration strategies applied to different sets of application

  o Rearchitecting from Monoliths to FaaS using AWS Lambda

  o On-Prem to Cloud integration for data interchange and interoperability

  o Highly Available, Fault Tolerant, Mission critical, real time systems built on AWS Cloud using CaaS (ECS/Fargate) solutions

- Was a key player in laying down the road map for phased cloud adoption at JB Hunt. This included

  o Re-Architecting mission critical applications to the cloud while continuously keeping pace with latest version of the technologies employed, as they evolved – which include Java version, Spring Boot version and Angular version

  o Future proofed the solution by establishing benchmarks in terms of Non-Functional requirements. Performance Optimization around areas like - messaging using clustered ActiveMQ in failover mode, multi-master database, event streaming message exchange for CRUD using ElasticSearch and SQL Server and Caching - were employed to guarantee 10x the anticipated peak load

  o Resiliency and Recovery in light of system unavailability demonstrated using chaos testing

- Master of setting up assembly line mode of delivery pods that perform NFR Finalization, High Level Design(HLD), Low Level Design(LLD), Development, Automation / Performance testing concurrently at different stages

- As an enterprise architect, guided several organizations in legacy modernization from 20+ years' old tech stacks to modern age hybrid stacks

Trainer / Mentor

- An established tech-guru with thousands of hours of training and mentoring tens of thousands of associates world-wide.
- Much awarded trainer for enabling associates across a spectrum of technologies that include(but not limited to) AWS Cloud, Java Microservices, Angular, Spring suite of technologies, JPA, Hibernate, jQuery
- Cognizant Certified Technical Trainer for delivering technical trainings and content with the resolve to lock on participants' attention
- Delivered over tens of thousands of hours of training for fresh recruits to experienced workforce across the globe
- Authored several technical courseware for Cognizant Academy around Angular, Microservices, AWS for beginners
- Delivered guest tech lectures on emerging cloud trends to colleges like Shastha University

Developer

- Extensive experience in developing Enterprise applications and Microservices using Java/JEE and various Spring technologies including Spring Boot, Spring Cloud Stack, Spring Rest, Spring MVC, Spring Data, RMI, EJB, JSP Custom Tags Libraries, JavaBeans, JDBC, JNI involving optimized usage of Networking, Threads, IO concepts.
- Hands on experience in application development and maintenance activities including requirement analysis, architecture, design, and implementation and testing with emphasis on Object Oriented principles from the scratch
- Experience in developing Cloud agnostic microservices embracing the 12 factor principles and microservices design patterns, that benefit the customer from falling for a vendor lock-in
- Expert in Angular, JavaScript and AJAX frameworks including jQuery, Prototype
- Expertise in applying Kafka, JMS (Java Messaging Service) for reliable information exchange across Java applications
- Experience in creating and consuming Restful and SOA Web Services
- Experience in database programming with SQL and PL/SQL using Oracle 9i/10g, SQL Server 2000/2005/2008, MySQL and proficiency in developing SQL in JDBC as well as client server environments
- Performed unit testing using JUnit, Protractor, Jasmine, Selenium and EJB Testing (custom built Innovative EJB Testing framework)
- Resolved Emphasis on Resiliency and Recovery (R2), performance tuning, code optimization activities with a "do-it-right-the-first-time" mentality
- Flexible and easy adaptation to all kinds of work environment with good team/independent management for best quality end results

Expertise Summary

Cloud	**AWS** – EC2, ECS, Fargate, EBS, Lambda, Elastic Beanstalk, CloudFront, API Gateway, ELB, ElasticSearch, ElasticCache, SNS, SQS, Cloudformation etc
Web Services	Microservices with Spring Boot, Spring REST, JAX-RPC, JAX-WS, Axis, Tools: SOAPUI, Postman
Containerization	Docker
Spring Frameworks	Spring Boot, Spring Cloud, Spring Data, Spring Core, Spring MVC, Spring REST, Spring Web Flow, Spring Web Services, Spring Hibernate, Spring JDBC
Java EE Technologies	Servlets, EJB 2, EJB 3, JPA with Hibernate, JDBC, JMS, JMS Clustering, Clustered Caching
Java Platforms	Java SE, Java EE, Java Web Start, Java ME
Java Frameworks & Tools	Redis Cache, Kafka, Struts 1,2, Hibernate 2,3, DisplayTag, JPA, Tiles, Quartz Scheduler, Clustered Scheduling, EHCache, Log4J, SLF4J, Commons Logging, XSLT, Apache POI, Apache FOP
Programming Languages	Java, Typescript, C, C++
IoT / Mobile Technologies	Arduino, Raspberry PI, Android, CLDC, MIDP(Java ME), jQuery Mobile
Web Technologies	HTML, CSS, AJAX, Javascript, Actionscript
Front End Technologies	Angular, jQuery, Prototype
Build Tools	Apache Ant, Apache Maven, Jenkins
Databases	DynamoDB, SQL Server, Oracle, MySQL, PostgreSQL, HSQLDB, Teradata, Sybase
Database Skills	PL / SQL, SQL, SSIS
Unit Testing	Jasmine, Protractor, JUnit, Selenium, EJBUnit(Self Built)
Content Management Systems	DotNetNuke, Joomla
Methodologies	Scaled Agile(SAFe), Scrum, Legacy Software Development Methodologies,
IDEs	Eclipse, RAD, Visual Studio Code
Graphics Tools	Adobe Flash, Adobe After Effects, Paint Dot Net, Maya, Cinema4D, DotNetNuke Skinning
Version Control	GitHub, VSS, SVN, CVS
OS	Windows, Linux : Ubuntu, Linux Mint, Fedora

Extras

- ❖ Authored 2 **White Papers** on challenging tasks implemented by my team for 3M
  - ❖ [REACH Readiness: Smart Solutions to Challenging Problems](#)
  - ❖ [How to Develop Online Recommendation Systems to Deliver Superior Business Performance](#)
- ❖ As a **Web Designer**, created the look and feel for the [Hindu Mandir of Minnesota website](#). Non profit, charity work
- ❖ As **Web Master**, have maintained internal websites running on Joomla and PHP for more than 3 years. Created monthly Newsletters sent out to the entire account of 500 associates
- ❖ As a creative **Graphics Design and Animation artiste,** developed numerous animations, intro videos, graphic fliers employing tools like Adobe Flash, Adobe After Effects, 3D Studio Max for companies like Cognizant, TCS, and Twiceware technologies.
- ❖ As a **mentor,** have lobbied support for best practice and interest groups in Cognizant. This includes teams like the Leading Practices Council, Java Technology Consortium, Development Core Team etc. Activities included – New Technology assessment, Architecture Review, Code Review and so on
- ❖ For the innovative activities rendered to the 3M account, was proclaimed as an **Innovation Champion** for the entire Cognizant 3M account(with a combined onsite offshore strength of 600 associates)
- ❖ As a **freelancer**, developed free quiz applications in Java/J2EE for the state level technical symposium "Avalanche 2003" organized by M.N.M.Jain Engg. College.

Certifications

- ❖ **AWS Certified Solutions Architect – Professional. Score 83%**
- ❖ **AWS Certified Migration Ambassador**
- ❖ **AWS Certified Solutions Architect – Associate. Score 87%**
- ❖ **IBM Docker Foundations**
- ❖ SAFe DevOps Professional. Score 94%
- ❖ SAFe Agilist v4. Score 96%
- ❖ **ORACLE Certified Master, Java EE 6 Enterprise Architect. Score - 88%**
- ❖ ORACLE Certified Expert, Java EE 6 Web Services Developer – 92%
- ❖ Microsoft Specialist, Programming in HTML5 with Javascript and CSS3. Score – 86%
- ❖ Professional Scrum Master 1, from Scrum.org Score - 96%
- ❖ ORACLE Certified Professional, Java ME 1 Mobile Application Developer. *Score - 97%*

- ❖ ORACLE Certified Master, Java EE 5 Enterprise Architect. *Score - 95% in Level 1, other levels don't carry scores*

- ❖ SUN Certified Business Component Developer for Java EE 5 Platform. *Score – 100%*

- ❖ SUN Certified Developer for Java Web Services, J2EE 1.4 Platform *Score – 97%*

- ❖ SUN Certified Business Component Developer for J2EE 1.3 Platform. *Score – 97%*

- ❖ SUN Certified Web Component Developer for J2EE 1.4 Platform. *Score – 92%*

- ❖ SUN Certified Java Programmer for J2SE 1.4*. Score – 95%*

- ❖ ICFAI University certified Software Testing and Quality Assurance Professional. *Grade –A*

- ❖ Cognizant Certified Program Manager

- ❖ Cognizant Certified Technical Trainer

- ❖ Cognizant Certified GenC Jury

Awards & Honors

- ❖ Cognizant LifeSavers - 2020
- ❖ Cognizant Knowledge Stalwart – December 2019, March 2020, June 2020
- ❖ Cognizant Innovation Champion 2012
- ❖ Star Performer August 2012
- ❖ Delivery Excellence Q2, 2011
- ❖ Cognizant Trainer Par Excellence Q1 2011, 2018, 2019
- ❖ Cognizant Idea Champion 2010
- ❖ Above & Beyond Q4 2010
- ❖ Star Performer Q4 2010
- ❖ Cognizant Top Trainer Quarter 2, 2010
- ❖ Cognizant Top Trainer Quarter 1, 2010
- ❖ Customer Delight Q4 2009
- ❖ Cognizant Trainer of the Year 2007
- ❖ Cognizant Star Performer 2007
- ❖ Cognizant Rainmaker 2006

Educational Qualifications

2000-2004 Bachelors Degree in Computer Science and Engineering,
M.N.M.Jain Engineering. College,
University of Madras, India.
Graduated with a score of 82%

1999-2000 12th Grade
The Madras Christian College School,
Tamil Nadu Stateboard, India.
Graduated with a score of 86%

1997-1998 10th Grade
Maharishi Vidhya Mandir,
Central Board of Secondary Education, India.
Graduated with a score of 84%

Career Timeline

Client	Domain	Work Location	Timeline
Cognizant Energy & Utilities Accounts	Energy & Utilities	Chennai, India	Apr 2021 - Present
JB Hunt	Logistics	Chennai, India	Oct 2018 – Mar 2021
3M	Manufacturing	Saint Paul, USA & Chennai, India	May 2007 – Sep 2018
Case New Holland	Manufacturing	Chennai, India	Mar 2006 – Apr 2007
Yazaki America	Manufacturing	Chennai, India	Oct 2005 – Sept 2006
General Motors	Manufacturing	Chennai, India	Oct 2004 – Oct 2005

Employer	FTE?	Work Location	Timeline
Cognizant	Yes	Chennai, India	Oct 2004 – Till Date

This is a brief version of my resume. An elaborate listing of all the projects that I handled can be found in the detailed resume available at **this** location