

## RADHAKRISHNAN ARUMUGAM

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### Summary

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- 16 years of strong technical experience in building solutions for web based applications and REST API development.
- Specialized in Airlines and hospitality Domain
- Proficient in Microservices architecture development using Spring Boot, Spring Cloud, Spring Data, Netflix OSS components (Eureka, Zuul, Hystrix, Zipkin), AWS, Apache ActiveMQ, Python.
- Proficient in REST API development using spring boot and python.
- Experience in AWS Lambda, AWS step functions, SQS, S3, Sagemaker, Terraform, MLFlow, Python, Docker, EKS, Jenkins, Jfrog.
- Serverless workflow management using AWS step functions, Lambda
- Integrated with ML models with services and provides real time predictions to consumers
- Experience in developing high volume web based Java/J2EE applications: Servlets, JSP, spring framework, REST, Junit/Testing Frameworks.
- Experience in Enterprise Integration Pattern using Apache Camel, Apache NiFi
- Strong working experience using Elastic Stack (Elasticsearch, Kibana) and implemented powerful distributed search capabilities using elastic search and Restful APIs.
- Proficiency in monitoring the Kubernetes cluster environment and AWS environment using Datadog and New Relic tools.
- Expertise in Service Oriented Architecture (MQ, JMS, XML, SOAP, JAX-WS) and Object-Oriented Design.
- Expertise in database frameworks like hibernate and JPA.
- Experience with modern JavaScript libraries/Client Web frameworks like jQuery, Angular, Ajax, bootstrap, CSS, HTML for building Rich Internet Applications.
- Worked on web/application servers WebSphere, WebLogic, Tomcat and IDE's RAD, STS, and Eclipse.
- Expertise in databases SQL Server 2000/2005, Oracle, and DB2.
- Strong in UML, Java Design Patterns, J2EE Design Patterns, Domain Driven Design.
- Experience in using wide variety of version control tools like git, Subversion, VSS and CVS.
- Architect & develop solutions and collaborate with other software architects to ensure that solutions are built in a consistent framework and adhere to organizational goals.
- Able to create, drive and complete POC's (Proof of Concepts) to test new ideas and apply emerging technologies.
- Experience with modern build strategies, continuous integration (Jenkins), unit testing, static analysis, and automated integration tests.
- Provides technical leadership and is responsible for developing components and the overall systems design.

- Strong background of Scrum/Agile/Iterative development process.
- Good operational knowledge of onsite-offshore model project execution, resource planning, team building, mentoring team member, and worked as project lead

## Highlights

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| <ul style="list-style-type: none"> <li>• <b>System Architecture &amp; Design</b> <ul style="list-style-type: none"> <li>○ Experience in diverse architecture style – Client/Server, Layered, Component based, SOA, Microservice Architecture.</li> <li>○ Experience in Cloud based Solution design - AWS</li> <li>○ Design, customization, optimization and implementation of Web and Batch application.</li> </ul> </li> <li>• <b>Technology</b> <ul style="list-style-type: none"> <li>○ Proficient in Java, JEE (JSP, Servlets, EJB, JAAS), Spring, Struts, Hibernate, jQuery, Ajax, Angular JS, Spring Boot, Spring Cloud, Python, Maven, Mockito</li> <li>○ Netflix OSS (Zuul, Eureka, Hystrix, Zipkin, Feign, Ribbon)</li> <li>○ AWS S3, SQS, EKS, Step functions, SageMaker, Lambda, SNS, Terraform, Jenkins, New Relic , Datadog</li> <li>○ Hands-on Experience in Data store design – MySQL, SQL Server, DB2, MongoDB.</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• <b>Management</b> <ul style="list-style-type: none"> <li>○ IT Strategy – Technology Change, GAP analysis, Application Portfolio Rationalization, Legacy Modernization.</li> </ul> </li> <li>• <b>Behavioral</b> <ul style="list-style-type: none"> <li>○ Team player</li> <li>○ Mentor</li> <li>○ Quick Learner</li> <li>○ Analytical Ability</li> </ul> </li> <li>• <b>Process</b> <ul style="list-style-type: none"> <li>○ Experience in Waterfall, Iterative and Agile development methodologies.</li> <li>○ End to End SDLC through CI/CD and ALM.</li> <li>○ Experience in DevOps tools such as Infosys DevOps Tool, Jenkins.</li> </ul> </li> </ul> |
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## Accomplishments

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- **Certifications**
  - Amazon Certified Solution Architect – Associate
  - Certified Scrum Master

- **Awards**
  - INSTA award from Infosys.
  - Best Offshore team provided by client
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## Work Experience

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| Dates                | Organization         | Designation              |
|----------------------|----------------------|--------------------------|
| Nov 2009 – Till Date | Infosys Limited      | Technology Architect     |
| Mar 2007 – Oct 2009  | Wipro Technologies   | Senior Software Engineer |
| Sep 2004 – Feb 2007  | Sysvine Technologies | Software Engineer        |

### Elsevier – UK Client

**Technical Architect June 2020 to till now**

**Infosys Ltd, Chennai, India**

- Design serverless solutions using step functions and lambda.
- Microservices design and development based on business requirement.
- CI/CD setup for microservices deployment.
- CI/CD setup for model deployment from MLFlow to sagemaker
- New Relic tool integration for monitor the Infrastructure setup
- **Environment:** AWS, EKS, EFS, Lambda, S3, Sagemaker, Step functions, SQS, Terraform, New Relic, Mongo DB, Spring Boot, Python.

### United Airlines – US Client

**Technical Architect Oct 2019 to May 2020**

**Infosys Ltd, Chennai, India**

- Design data flow between different systems using Apache NiFi.
  - Develop custom processors specific to business cases.
  - CI/CD setup for data flows.
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- Setup Datadog tool to monitor existing Infrastructure setup
- Implement Application performance monitoring and Real time user monitoring
- Helped internal teams to setup infrastructure and providing technical solutions.
- **Environment:** AWS, EKS, Apache NiFi, Datadog, Apache Camel, SQS, Couchbase DB, Dynamo DB

## **Resort Condominiums International – US Client**

**Project Lead   Apr 2019 to Sep 2019**

**Infosys Ltd, Chennai, India**

- Design, build and deploy micro services apps using Java, Spring Suite and Netflix OSS.
- Build solution to externalize and manage configurations for multiple environments using Spring Config Server.
- Implemented Netflix Zuul as gateway /edge server/proxy server to load balance requests, and route authenticated and authorized JWT tokens to downstream services.
- Worked on Jenkins pipelines to build, publish artifacts to nexus and deploy apps to AWS.
- Written API definitions or contract in Swagger.
- Integrated Jenkins pipelines with SonarQube to generate code analysis reports to improve code quality.
- Helped internal teams to setup infrastructure and providing technical solutions.
- Worked with global architecture team and other stakeholders to find solutions to improve app health, response time, strengthen infrastructure, monitoring, distributed tracing and many more.
- **Environment:** Java 8, spring boot, Spring Cloud, Elastic search, Kibana, Netflix OSS, AWS

## **Ministry of Human Resource - Dubai**

**Project Lead   Sep 2018 to Mar 2019**

**Infosys Ltd, Chennai, India**

- Portfolio Analysis & Establish Enterprise Technology Standards
- Discovery report and provide the solution
- Define System Architecture and Nonfunctional requirements.
- Create Prototypes and Participate in grooming sessions and meetings
- Create High Level Design, Provide Technical Solutions and Perform Feasibility Analysis
- Define API design and development standards and guidelines
- Assisted and mentored team
- **Environment:** Java 8, spring boot, Oracle, GSB, ETL

## **Airline Tariff Publishing Company -US Client**

**Technology Lead   May 2014 to Aug 2018**

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## **Infosys China, Shanghai, China**

- Interact with onsite coordinator for Requirement Gathering and Requirement Analysis.
- Deputed to Infosys China to train the Chinese Infosys employees and help them to understand the application.
- Created proof-of-concept prototype applications for demonstration and evaluation purposes.
- Development of Detailed Design Specification and Low Level Design specifications.
- Creation of proof of concept for various implementations and development Application for seamless integration with the other module.
- Tracking each process assigned to the team to ensure all delivery are as per schedule and exceed defined quality goals
- Key member in optimizing the business process and performance at module level.
- Lead a team of 10 and worked with Architects for performance testing. Development of an automation tool for regression testing for the specific module, which receives the inputs from the source systems.
- Coordinated Training for fresher on project related aspects, Quality assurance and Infosys Radian framework.
- **Environment:** Java 6/8, spring boot, DB2, Spring, Hibernate, JSP, Struts, WebSphere, jQuery

## **Sysco – US Client**

**Technology Lead      Feb 2012 to Apr 2014**

### **Infosys China, Hangzhou, China**

- Participated in Database Design
- Developed the Restful Web Services
- XATA web services integration with application to view truck details.
- Drivecam web services integration with application to view driver details
- Create High Level Design, Provide Technical Solutions and Perform Feasibility Analysis
- Setting the development standards and ensuring the quality of deliverables
- Mentor and Guide the team during implementation
- Defect Prevention Analysis, Impact Analysis
- **Environment:** Java 6, Spring MVC, Spring Scheduler, JSP, Tomcat, jQuery, REST, SOAP, SQL Server, ApacheMQ

## **Emirates Airlines – Dubai Client**

**Technology Analyst      Nov 2009 to Jan 2012**

### **Infosys Ltd, Chennai, India**

- Development of the Application and integration with the other module.
  - Setting the development standards and ensuring the quality of deliverables
  - Mentor and Guide the team during implementation
  - Bug Fixing, Defect Tracking regarding use and functionality of interfaces.
  - Developed a Monitoring system for the testing process to track a transaction using JSF framework. The User interface is designed using xhtml.
  - Responsible for my team towards the completion of the module
  - Coordinated Training for fresher on project related aspects
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- Coordinated workshop sessions for Quality assurance.
- **Environment:** Java 6, JSF, Hibernate, Xhtml, JBOSS, Oracle

#### **Northwest Airlines – US Client**

**Senior Software Engineer      Mar 2007 to Oct 2009**

**Wipro Ltd , Chennai, India**

- Development of the Application and integration with the other module.
- Interacting with onsite team for Requirement Gathering and Requirement Analysis.
- Development of Detailed Design Specification and Low Level Design specifications.
- Preparation of unit test plan, integration test plans and user test plans.
- Coding, Unit testing and reviews
- Reviewing Software code for Quality Assurance.
- Environment Setup based on release, the test data set up for validations.
- Bug Fixing, Defect Tracking regarding use and functionality of interfaces.
- **Environment:** Java 5, DB2, Struts, Hibernate, JSP, WebLogic

#### **MITA – US Client**

**Software Engineer      Sep 2004 to Feb 2007**

**Sysvine Technologies, Chennai, India**

- Development of the Application and integration with the other module.
- Interacting with onsite team for Requirement Gathering and Requirement Analysis.
- Coding, Unit testing and reviews
- Bug Fixing, Defect Tracking regarding use and functionality of interfaces.
- **Environment:** Java 5, MySQL, Struts, Servlet, JSP, Tomcat

## Education

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**Bachelors in Electronics and Instrumentation Engineering**  
**Bharathidasan University**

**1999-2003**  
**Tiruchirappalli, India**