

# ARUN MADHAVAN G

## SOLUTION ARCHITECT

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### PROFILE

Hands-on Solution Architect with over 15 years of experience driving Legacy Rescue, Micro Service and Cloud Adoption, with strong design, development and consulting experience.

### SUMMARY

- Experience as a Solution Architect and Lead consultant, including international exposure and stake holder management.
- Led Digital transformations for projects of large scale, that includes migration to cloud, legacy monoliths to microservices and technology standardizations.
- Continued hands-on experience with architectural solutioning, preparation of technology roadmap, SRE/DevSecOps adoption, cost optimization and Design thinking.
- Experience with training, mentoring and guiding teams with customer obsessed product delivery.
- Product Management Experience, working on large global programs, planning, road mapping, delivering and supporting customer facing projects.
- Extensive experience as a polyglot developer, applying craftsmanship principles, working across languages, frameworks and technologies across Frontend, Server side, Cloud, Big data, RDBMS and NoSQL.
- Servant Leadership practitioner, demonstrates empathy, persuasion, stewardship & knowledge over hierarchy

### WORK EXPERIENCE

- **Solution Architect** 2020 – Now  
Ford Smart Mobility
- **Lead Consultant** 2018 – 2020  
Ajira Tech
- **Product Manager/Tech Lead** 2015 – 2018  
Ford Motor Company
- **Tech Lead** 2012 – 2015  
Cognizant
- **Senior Software Engineer** 2010 – 2012  
Wipro Technologies
- **Member of Technical Staff** 2009 – 2010  
Zoho Corp
- **Software Engineer** 2006 – 2009  
Mahindra Satyam

### MY SKILLS

#### Process and Tools

Agile, SCRUM, KANBAN, Roadmap, Camunda BPM, Confluence, Rally, Pivotal Tracker

#### Cloud and Infra

GCP, Azure, AWS, PCF, Apache Kafka, RabbitMQ

#### Languages and Frameworks

Java, JavaScript, Python, Scala, Spring Boot, Ruby on Rails, Flask, React JS, SCSS, Tailwind

#### Data Store and Processing

RDBMS, MongoDB, Elastic Search, S3/Blob store, REDIS, Spark, Tableau, Superset, AWS Redshift, AWS DMS, Big Query, Firestore

#### DevSecOps

Docker, Kubernetes, Ansible, Terraform, Jenkins, GH Actions, GitLab CD, Azure Pipeline, FOSSA, SonarQube, Checkmarx, Splunk, Dynatrace, Graphana, Prometheus

## **ACHIEVEMENTS**

- Re-Architected legacy systems, thereby helping it to handle 10X more requests
- Spearheaded cloud adoption, not just lift and shift, but also through transformation, driving down the cost. Expected saving is of the order of 40%
- Written and open-sourced components, available in GitHub
- Defined, shared, consulted, and led technology standards, across the organization

## **Project Summary**

### **Connected Vehicles - Global Vehicle Management System**

Solution Architect

Nov 2020 – Now

Ford Smart Mobility

#### Key Responsibilities:

- Provide architectural direction for various functional and technical changes, working with cross functional teams, understand future increase in load and plan for infrastructure capacity
- Work with other architects in connected vehicle space, and identify improvements in overall system and their various interactions
- Work on proposals and Proof of concepts for tech refresh and re-writes to enable scaling of application for future increase in demand and work closely with the product teams to take it to implementation
- Training and Mentoring teams both in terms of architectural and technical directions

#### Key Achievements:

- Worked on a complex tech refresh proposal that helped improve the application to handle 10 times more load
- Leading GCP migration from on-prem for a highly critical application
- Identified improvements and led the development of reconciliation service, that led to over 80% reduction in data sync issues
- Conducted Java Training for FCGs and internal training for Product teams on architecture and craftsmanship principles

#### Tech and Processes:

Agile, PCF, Spring Boot, Oracle ExaCC, REDIS, KAFKA, RabbitMQ, Event Driven Microservices, GCP, Big Query, MongoDB, Cloud Run, GKE

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### **Context Aware Signaling and Analyzing (CASA)**

Lead Consultant

Jun 2020 – Oct 2020

Ajira Tech

#### Key Responsibilities

- Work with product manager on product roadmap, identify key features, plan, develop and deploy features
- Improve existing code base, increase automation for deployment, and reduce time to market
- Work with various retail end customers for feedback and suggestions, which would be incorporated into the roadmap as required
- Help with recruitment and training of new joiners

#### Tech and Processes:

NodeJS, Spring Boot, Apache Spark, Ruby on Rails, KAFKA, PostgresDB, Elastic Search, GOCD, ReactJS, Agile (KANBAN)

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### **Revint (CloudMed) – Hospital Revenue Intelligence Platform**

Lead Consultant

Oct 2019 – May 2020

Ajira Tech

#### Key Responsibilities

- Led a team to build a big data processing platform
- Worked from inception, planning, road map creation, architectural design and implementation using industry best practices
- Worked with customer stake holders, for requirements, status tracking, feature signoffs etc.

#### Key Achievements

- Delivered the MVP of the project in 3 months, implemented using tech in Azure cloud
- Worked on improvements in data processing performance and cleanup, that led to 30% saving in cost and up to 60% improvements in the data processing performances

#### Tech and Processes:

Apache Spark, Scala, Azure Data Factory, Databricks, Couchbase, Azure Pipelines, Agile (Scrum)

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**MatchMove – EIS Platform**  
Lead Consultant

May 2019 – Sep 2019  
Ajira Tech

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**Key Responsibilities**

- Led a team and worked from inception, requirement gathering, architectural design, implementation and post-production support
- Helped in building a data aggregation and data processing platform based on AWS components
- Ensured customer obsession, and made the platform simple and configurable to use

**Key Achievements**

- Delivered the MVP in 3 months' time, enabling our customer to make efficient business decisions
- Collated and continued to sync multiple GBs of data every day in a seamless manner.

**Tech and Processes:**

Python, Flask, AWS Cognito, AWS Redshift, AWS S3, AWS CloudFront, AWS ECR, AWS DMS, Docker, Jenkins, ReactJS, Tableau

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**Qube Cinemas – Apsara Theatre Management System**  
Senior Consultant

Oct 2018 – Apr 2019  
Ajira Tech

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**Key Responsibilities**

- Worked with the customer, to understand and develop their next gen theatre management software
- Implemented DevOps, test automation, frameworks for improved testing that ensured high quality of delivery

**Key Achievements**

- Developed 2 frameworks that helped in reducing code complexity and ensured 0 defects while integrating with the actual backend

**Tech and Processes:**

NodeJS, RXJS, Docker, Jenkins, ReactJS, SCSS, Redux, Agile

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**DigitalXC – Service Cloud**  
Senior Consultant

June 2018 – Oct 2018  
Ajira Tech

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**Key Responsibilities**

- Worked on requirement understanding, solutioning, implementation, and evolution of the product.
- Led a team and executed the project using Agile (KANBAN)
- Developed MVP in 3 months and subsequently improved the product, enabling the customer to find prospective clients easily

**Key Achievements**

- Implemented multi-tenant, multi-providers authorization integration, enabling tenant specific SSO integration
  - Improved support efficiency by over 60% through easy on-boarding changes and documentation
  - The product helped DigitalXC customers save up to 40% of their operation cost, through automation of Devops process and through a subscription-based model
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**FordPass & LincolnWay – Mobile Apps**  
Product Manager

Apr 2017 – May 2018  
Ford Motor Company

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**Key Responsibilities**

- Insourced the FordPass and LincolnWay projects from Pivotal Labs, getting trained by their product managers
- Ran agile ceremonies such as Feature prioritization with Product Owner, Iteration planning, daily standups, weekly demo and acceptance, CRUX review with Designers and Product owners etc.
- Led the team to delivery many features with good quality

**Key Achievements**

- I was one of the first product managers in Chennai Ford, and helped train, share experiences with others
- Awarded Ford Asia Pacific Employee Award, for running a 3-day functional programming workshop
- Awarded Pat on the back award for delivering FordPass app in China

**Tech and Processes:**

Agile, SCRUM, Pivotal Tracker, Confluence

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**Key Responsibilities**

- Identification and implementation of frameworks and Ford specific components, that helps in standardization of technology implementation
- Training and consulting teams on new frameworks, existing framework issues and for project rescue and trouble shooting
- Review new technology components, required for new applications, take them through a legal review process before approving them for applications to use
- Build new tools, to help teams get started easily

**Key Achievements**

- Introduced many new technologies, and standards such as JPA, Gradle for build, RESTful services replacing SOAP, Spring etc. defining standards
- Improved code coverage of existing frameworks to over 90% and helped improve the time to market for incremental changes
- Awarded many awards for handling trainings, recruitment drives and consulting assignments

**Tech and Processes:**

Java-JEE, JPA, Spring Boot, Rally, KANBAN, Agile

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**World Bank – Operations Portal**  
Team Lead

Apr 2012 – Feb 2015  
Ford Motor Company

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**Key Responsibilities**

- Lead a team to develop operations portal using WebSphere portal server
- Handled team management, customer management, status updates, Metrics Push and timesheet for the team
- Developed and delivered many functional requirements requiring cross functional and technical team integration
- Developed frameworks that helped with more efficient development

**Key Achievements**

- Developed a code generation and automation framework, that reduced the time taken for new integrations SAP components by over 90% (from more than a week to few minutes)
- Developed a framework on top of an opensource document generation library, enabling a configuration-based document generation, saving 70% of development time
- Faced ISO 9001 audit twice and handled the auditors with appropriate proofs and quality improvement activities
- Was awarded Employee of Quarter award

**Tech and Processes:**

WebSphere Portal, JSR 286 portlets, Spring MVC, Spring Integration, Spring Security, Sencha ExtJS, JQuery

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