Arun Alagesan is an experienced IT professional with overall 18+ years (220 months) of professional experience, a diversified Solution Architect with deep hands-on and a passionate technical leader. Arun Alagesan have gained expert level knowledge in conceptualization, designing and guide development and technical teams to develop state of art application, best in class frameworks and reusable solutions. Arun Alagesan has effectively managed high performing engineering associates across functional teams and have in dept knowledge of legacy enterprise platform to design and implement solution for modern Information Systems with industry standards and architectural principles. Arun Alagesan has the ability to demonstrate and build an effective team for quality code governance and quality assurance. Arun Alagesan has detailed working knowledge and experience in delivering medium to complex scale solutions using Agile process, with strong testing habits towards unit testing and TDD. Arun Alagesan possesses an excellent problem-solving skill with a solid understanding data structures and algorithms.

Objective

Demonstrate technical leadership and deliver business value under the capacity of a Senior Development Manager, Principal Architect and as a Solution Architect towards the organizational goals and imperatives

Profile Summary

* 18 Years of expert knowledge in Computer programming languages (C, C++, C#.Net, VB.Net, VB), Application frameworks (.Net 4.5, ASP.NET 4.5 MVC, WCF, Angular JS) and development tools
* 14 years of strong knowledge in Internet Technologies and Web Application development in distributed architecture with ASP.Net, C#, Web Services, WCF, MS SQL Server
* 12 years of experience in developing best in class enterprise applications, specialized in Object-Oriented Analysis and Design, Service Oriented Architecture (SOA), Product engineering and Technology consulting
* Over 5+ years of Cloud/SaaS experience and Infrastructure as a Code (IAC) tool with deep hands-on knowledge in AWS, Microsoft Azure and DevOps tools, GitHub, Terraform, Jenkins
* Deep hands-on experience in modern programming languages Python, .Net core, Shell Scripting, Docker, Docker Compose
* Strong experience in leading high performing Engineering teams and executing Architecture Committee Board control across projects
* 2+ years in Managing and delivering features in CX centric solutions for deploying ML models for Agent Scoring, Customer classification, Forecasting and Scheduling in WEM and WFM platforms
* Handled large scale data acquisition from different source and formats, transforming to Master Data Specifications for Health Care

Technology Competency

* **Architectural Patterns:** Client Server, Layered, Distributed, SOA, Microservices, Serverless, Containerization
* **Security:** Server hardening, OWSAP Implementation, STIG, CheckMarx, SSO, Secure Web Applications and APIs
* **Programming Languages:** Python**,** C#.net, VB.Net, C++, JavaScript, Core Java,
* **Programming Language Frameworks:** DOTNET Core, ASP.NET, ASP.NET MVC 4.5
* **Internet:** HTML5 / CSS3, Responsive web design, JavaScript, AJAX,
* **Frontend frameworks**: React UI, Angular, Vue.js, TypeScript
* **Middleware:** SOA, WCF, Web Services, Rest Services, Web API, CQRS Patterns and Best practices
* **Database:** MS SQL Server 2012
* **ALM Tools:** TFS, Confluence, Jira
* **Continuous Integration and Delivery Tools:** TFS, Git, GitHub Actions, Jenkins, Terraform
* **Architecture Tools:** Microsoft Visio, UML, Draw.Io
* **Cloud Technologies:** AWS, Azure
* **Site Resiliency Engineering:** PagerDuty, Zabbix Monitoring
* **Embedded Engineering:** Raspberry Pi, Arduino, ESP8266

Personal Traits

* Ability to work well independently and also as a part of team
* People-oriented and build good relationship
* Dependable team player and likes a friendly and open style of communication
* Persistent and persevering in the approach to achieve goals
* Self-motivated hobbyist on continuous learning and experimenting new technologies

Key Awards and Accomplishments

* Received **prestigious #SuperRAD** title for the most contribution towards problem solving and consulting to the peers in **Community for Microsoft Practice - Cognizant**
* **Received** on the **SPOT** award for the **years 2006, 2007 and 2009** for my contribution to the project
* **Received Ovation Award in the year 2013** for exhibiting **key leadership skills**
* Since 2011 **have led five strategic initiatives** and **handled teams** of various culture and of size **3 to 14** with great success and quality
* **Travelled** overseas for short term deputation during Product Launch in **Irving, TX** and Los **Angeles, CA** for the rollout support and ensure smooth delivery

Experience

**Planned Career Break: Since July 2022 (13 months):**

**I am on planned Career break for family care.**

**Parttime consultant** providing consultation on **high level architecture** to build React UI application with Dotnet Core

Setting up of basic Dev-Ops **CI/CD build pipeline** with **Jenkins and GitHub** and Docker containers to deploy

**Optum Insight India Private Limited, Lead Software Engineer Grade 28 (Dec 2020 to June 2022)**

**Technology/ Tools:** Python, Dot Net Core, Web API, React UIAWS **Serverless** Solutions Fargate, Lambda, Step Functions ECS, S3, DynamoDB, SNS, RDS, Application Load Balancer, CloudWatch, Terraform

**Authored and developed modular**, flexible, **shared serverless components** in AWS with Lambda, Fargate service and orchestrated data pipe line with step function, SNS, S3 that led to reduction of 20% time to market the features developed

Proposed on **rearchitecting/rewrite of legacy** data load platform with reusable, flexible, scalable and secure shared components as brick and build the platform that improved 30% SLA of the usual business process

Directed and participated the **Architectural Review board** to flesh out the key functional and nonfunctional aspect of the solution, build processes and diagnostics to troubleshoot, maintain and to optimize solutions and **respond to customer and production issues**

Advised **industry best practices and technology adoption** in the full product lifecycle including proof of concepts, architect, design and build, user stories, research, and demos that led to 40% increase in productivity

Embraced **continuous learning of engineering practices** and ensured to be on top of **industry best practices and technology adoption**, including DevOps, Cloud and Agile thinking

**Career Break (May 2020 to Nov 2020) 7 Months: Family sabbatical**

**Genesys Telecom Labs India Pvt. Ltd., Chennai, Development Manager (Nov 2017 to Apr 2020)**

**Technology / Tools:** Python, AWS, .NET 4.5, C#, ASP.NET, ASP.NET MVC and Web API, Entity Framework 6.0, LINQ, AJAX, Angular JS, JQuery, SOA, WCF, Web API, MS SQL Server 2014, Visual Studio 2013, GitHub, Lucene and Elastic search.

Spearheaded the **Core Engineering team** for the development and support of the Speechminer Application suite an NLP based speech to text recognition engine

Involved in designing domain specific utterance classifiers, emotion detection, redaction, forecasting models in the transcribed artifacts from the Recognition Engine of the Speechminer suit

Advised and **Established DevOps culture** within the Continuous Engineering team to automate the deployment models of the application in AWS Infrastructure

Often involved in **Site Resiliency Engineering Board** for doing **RCA**, **Blame Storming** and implement mitigation plans

Collaborated with Product and Project Managers to align the delivery and strategy of on-boarding new clients on cloud platform

Investigated in junction with Professional Services team to resolve the On-Premise customer deployment and support the team to resolve the customer issues

Often Organized and preceded the **Architecture board** that involved to **adopt security practices** and **integrating legacy application** to **the latest technology platform**

Worked with the Algorithm and research team for new language recognition engine and improve the quality of recognition.

Often involved in **assessing technical capabilities** in **talent acquisition** for Organization expansion

**Cognizant Technology Solutions, Chennai. Architect – Technology (Feb 2014 – Oct 2017)**

**Technology / Tools:** .NET 4.5, C#, ASP.NET, ASP.NET MVC 5.0, Enterprise Application blocks, Entity Framework 6.0, LINQ, AJAX, HTML5 / CSS3 / RWD, JavaScript, Angular JS, JQuery, JSON, XML, SOA, WCF, Rest Services, Web API, MS SQL Server 2012, Visual Studio 2015, TFS 2015, SSIS, Microsoft Project, Microsoft Visio, Apache Cordova for Android

* Ventured with Microsoft Consulting Service Team to arrive at large scale deployment architecture of TFS 2015 ALM across geo locations
* Produced Framework blue prints for cross platform applications with ASP.NET MVC, REST Services, WCF for Desktop based application and Apache Cordova with HTML 5 and Angular JS, WebAPI for Android platform
* Proposed technical solution and remediation for the challenges encountered by the developers in the team
* Conceived Architectural solutions for medium to large scale application
* Provided Integrator solutions for the enterprise applications coordinating with Enterprise Architects
* Advised technical guidance to development teams and performed code reviews
* Liaised the pre-sale engineers in their proposal for Architecture Artifacts
* Created design artifacts and technical documents for the solutions developed in Microsoft framework
* Devised Hybrid Application with Apache Cordova project and implemented minimum viable product
* Active panelist for hiring good talents for the team expansion
* Enforced best practices and patterns for green field projects
* Performed Customization to existing application architectures to meet the change in business flows
* Evaluated and implemented High Availability strategies for enterprise rollout
* Performed Code Refactoring to improve Application maintainability and performance

**VERIZON DATA SERVICES INDIA, CHENNAI – Technical Lead – Systems Dev (April 2006 – February 2014)**

**Technology / Tools:** .NET 4.5, C#, ASP.NET, ASP.NET MVC 4.0, Enterprise Application blocks, LINQ, AJAX, HTML5 / CSS3 / RWD, JavaScript, Angular JS, JQuery, JSON, XML, SOA, WCF, MS SQL Server 2012, Visual Studio 2013, TFS 2012, Clear Case, SSIS, SSAS, SSRS, Microsoft Project, Microsoft Visio

As **Technical Lead** – Systems Dev - Jul 2011 to Feb 2014

* Designed and Architected the Data warehouse modal (Facts, Dimensions) for the Call Center Analytical Intelligence Engine (CCAIE)
* Designed the Architecture and implemented the CoFEE Anywhere Services without tampering the business logic for SOA Platform with WCF.Net
* Improved the application performance applying parallel programming on the server side and Ajax on the client
* Developed common framework modules for the CoFEE Anywhere Suite with .Net 4.0, jQuery,
* Helped the team to scale their competency by conducting and workshops and trainings in new technology
* Conducted Design review, Code Review, Test Case review, and supported Production deployment
* Rolled out the CoFEEAnywhere HSI component as per the milestones with utmost quality
* Designed and Developed Automation tools which automates the manual work of issuing adjustment and fetching reports, this helped the organization is reducing the cost of many FTEs (Full Time Employees)
* Spearheaded a crucial role in Conflict management with the joiner teams and resolved major road blocks for the deliverable on time

As **Senior Analyst** – Systems Dev – Sep 2008 to Jul 2011

* Redesigned of flows to use the latest .net framework features like WCF and WF for the application to have state of art design which reduces impact analysis time for enhancements and make the application perform better
* Played an important role in Plan/ Design/ Development and rollout of migrating the code base from .net framework 1.1 to .net framework 3.5 to enable the application use the new features of the framework to give application better stability and unmatched performance and better user experience
* Part of the support and rollout of the CSG Migration’s is a legacy system which was taking care of Video (TV) related orders and billing, as part of CSG migration we migrated functionalities in CoFEE which reduced huge maintenance cost of the CSG system
* Handled a 6-member team and actively participated the JAD calls and delivered the work with in time lines
* Worked as a D&E Lead in CoFEE Billing
* Actively responded and resolve the critical issues in Production outages
* Played a crucial role in fixing the Incident Reports
* Monitoring Server Health checks and taking necessary actions if any outage occurs
* Interaction with onsite Coordinator

As **Analyst** – Systems Dev – Apr 2007 to Sep 2008

**Technology / Tools:** .NET 1.1, C#, ASP.NET 1.1, Web Service, Visual Basic 6.0, AJAX, JavaScript, XML, MS SQL Server 2005, Visual Studio 2003, Clear Case, Crystal Report

* Developed modules with ASP.Net 1.1, JavaScript, SQL Server 2005
* Implemented HttpHandler module in CoFEE Billing Application
* Fixed Incident Reports logged against functionalities
* Designed and implemented Excel Report generation for CRM Functionality
* Created Mock Testing Modules for the CoFEE Billing Application

Joined as **Software Engineer** – Systems Dev – April 2006 to April 2007

**Technology / Tools:** ASP.NET 1.1, JavaScript, Ajax, SQL Server 2005

* Bug Fixing, Incident Report, worked on Work requests, performed health check activities for CoFEE Billing

**MASCON GLOBAL LTD. INDIA, CHENNAI**–**Executive – Systems (**Nov 2004 – Apr 2006)

**Technology / Tools:** .NET 2.0, C#, ASP.NET 2.0, ASP.NET 1.1, Visual Basic 6.0 Enterprise Application blocks, LINQ, AJAX, JavaScript, XML, MS SQL Server 2005, Visual Studio 2003, VSS

* Developed Application in ASP.Net 1.1 for MSGL Inc. USA group Royalty Payment System
* Developed application in Visual Basic 6.0 for CELF4 Spanish, WISC-IV--WIAT-II UK WRITER, Early Childhood Observation System (ECHOS) and CELF Preschool–2 Behavioral scoring Systems for Harcourt Assessment. USA
* Developed the program as per the TDD and the quality objectives specified in Software Quality Assurance Plan
* Participate in integration testing of programs developed
* Communicate Project status to onsite management

**Dept. of Mathematics IIT Madras Chennai** as **Systems Trainee** –Jul 2003 – Nov 2004

**Technology / Tools:** Red Hat Linux, PHP, Pearl, C++, Apache Web Server, SQL

As a Systems Trainee - Jul 2003 – Nov 2004

* Developed Intranet Websites and Office Automation tools for Department of Mathematics IIT Madras,
* Learned PHP, Pearl and SQL with Red Hat Linux
* Implemented Search Algorithms with C++ in Linux

**Education**

Bachelor of Engineering in **Computer Science and Engineering graduated** from **Vel Tech Engineering College** Avadi, affiliated to **University of Madras** graduation year April 2002

Higher Secondary School Education passed out in March 1998 from Nazareth Matriculation Higher Secondary School Avadi, Chennai

High School Education in Matriculation passed out in April 1996 from Nazareth Matriculation Higher Secondary School Avadi, Chennai