Karthikeyan Karunanithi

Architect– Wipro

Wing 4-2B, Kgeyes Samyuktha, Opp Mount Carmel School, Madambakkam, Chennai-600126

Email id: **karthikeyan.karunanithi@gmail.com** Phone: **+91 9789660880**

**PROFESSIONAL EXPERIENCE:**

I have **13+ years** of Professional experience in Java, J2EE and Cloud Technologies with more than 8 years of experience in healthcare.

|  |  |  |
| --- | --- | --- |
| **Organization** | **Experience** | **Role** |
| **Wipro** | 2018-Till Date | Cloud Architect |
| **DXC (CSC & HP)** | 2011- 2018 | Lead Developer/Architect |
| **Polaris Software Labs** | 2010 - 2011 | Java Developer / Module Lead |
| **Cognizant Technology Solutions** | 2007- 2010 | Java Support Engineer |

**Certifications:**

* **Google Cloud Architect (2021)**

<https://googlecloudcertified.credential.net/profile/5ebd59addd0b421ac46cb349c36af0cd213cf3ae>

* **Sun Certified Java Architect (SCJP 5)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **VISA:** B1 (United States)  **EDUCATIONAL QUALIFICATION:**   |  |  |  |  | | --- | --- | --- | --- | | **Course** | **Institution** | **Year of Passing** | **Percentage of Marks** | | **B.Tech - Information Technology** | Sona College of Technology,  Salem | 2007 | 73.09 | | **Higher Secondary** | St.Pauls Hr.Sec.School,  Salem | 2003 | 83.92 | | **10th Matriculation** | Mothers matriculation school, Salem | 2001 | 79.00 |   **Current Role:**  **Wipro from** 2018 - Till Date working as Cloud Architect.   * Working with **Google Kubernetes Engine**, **Docker** containers, **Spring boot** application.Closely working with Developer team and Devops. * My daily work involves creating POC, creating Standards and Guidelines, Creating reference implementation for developers, Creating **monitoring system** and integrating with application (for which I have received **best implementation award**) * Create **Kubernetes Yaml** for Application configuration and deployment * Working with **Kubernetes Secrets** and **Google secret manager** for Application and data security * **Migration of Restful APIs** from on premise to cloud * Integrating the Application with **Stack Driver Monitoring** * Integrating the Application with **APIGEE** (Received training in Apigee from google core team) * Interaction with Google consultants to identify the best practices and implementation for GKE. * Working with Kubernetes objects like **Ingress**, Namespace,Configmap,LimitRange,ResourceQuota * Create and manage Horizondal pod autoscaling (**HPA**) files and standardizing pod specification. * Working with **Gitlab (gitlab-ci.yaml)** pipeline file for CI/CD pipeline * Write **Dockerfile** to deploy Springboot application in Redhat JDK11 container image. * Worked on **Terraform** and **Ansible** files to create Jumpbox deployment VM * Create **dataflow diagram with visio** to deliver to clients. * **Benchmark Springboot applications** to identify optimal pod size. * Identify Properties and Dependencies (**maven** pom.xml) and apply them to existing Springboot application to integrate with Google cloud system, Cloud monitoring system, Logging and Tracing system. * Review Spring Application code to check for adherence to standards. * Write Template yaml files(**Swagger API**) for application for API documentation * Create monitoring and alerting systems and integrate with application   **Previous Company Profile:**   |  | | --- | | * **DXC.technology** from2011 - 2018 working as Java Developer/Java Architect   Responsible for consulting complete technical solution that includes analysis, design and development of applications.   * Developed from scratch Patient portal booking application which went live in 2 locations * Implemented Https, Integrated OTP and developed build system * Delivered solutions to the security issues and Live Issues reported * **Polaris Software Labs** from 2010 – 2011 worked as Java Developer / Module Lead   Involved in all SDLC life cycle phases   * Requirement Analysis * FS * Design * Coding and * Testing Phases * **Cognizant Technology Solutions** from 2007- 2010 worked as Java Support Engineer   Lead team to deliver high-end analytical solutions with respect to client requirement and future needs | | * Automation Tools Developed for Business * Deliver solutions to the clients * Requirement Analysis and Impact Study * Production Support and enhancement | |

**TECHNICAL EXPERTISE:**

|  |  |
| --- | --- |
| **Top 5 strengths** | **Kubernetes(GKE) ,**Docker Container**,** Spring Boot, Java ,  Prometheus/Grafana monitoring system |

|  |  |  |  |
| --- | --- | --- | --- |
| **Tech Skills** | **Experience (Months)** | **Tech Skills** | **Experience (Months)** |
| **Spring/Spring Boot** | **60** | **Kubernetes(GKE)** | **24** |
| Prometheus/Grafana | 12 | **Docker** | **12** |
| **Java** (SCJP 5.0) | **120** | Terraform Script | 6 |
| **Micro services** | **12** | **REST Web service** | **60** |
| Angular JS | 24 | JSON/GSON | 24 |
| Maven | 60 | JavaScript | 48 |
| Tomcat, Weblogic,jBoss | 60 | JUnit | 24 |
| Oracle | 60 | Log4j | 6 |
| Struts | 24 | JAXB | 12 |
| HP-UNIX, UNIX Shell scripting, Linux | 36 | JQuery | 36 |

**Project Profile**

**HealthPlan Services**

**Client:** Health Plan Services . HealthPlan Services stands at the forefront of the health insurance industry, providing exchange connectivity, administration, distribution and technology services to insurers of individual, group, voluntary and association plans, as well as valuable solutions to thousands of brokers and agents nationwide.

**Technology:** Kubernetes(GKE) ,Docker Container, Spring Boot, Java , Prometheus/Grafana monitoring system,Apigee

**Roles and Responsibilities**: I work as Cloud and Java Architect in HPS.

**Role:** Architect

**Team** **Size:** 6

**Role Description:**

* Google kubernetes deployment with rest API
* Name space creation
* Pod creation and configuration
* Secrets management
* Gitlab integration
* App deployment.
* Working with Apigee to expose API

**Project Details:**

Migrating the application from Onpremise to Google cloud Environment.Working with Google Kubernetes Engine, Docker containers, Spring boot application.Closely working with Developer team and Devops.My daily work involves creating POC, creating Standards and Guidelines, Creating reference implementation for developers, Creating monitoring system and integrating with application

**Patient Portal - Hospital Information System**

**Client:** Mouwasat Medical Hospital in Saudi Arabia

**Technology:**

Java, **SPRING**, **AngularJS**, REST **Web Services**-Jersey, Maven

**Roles and Responsibilities:**

**Role:** Developer, Architect

**Team** **Size:** 8

**Role Description:** Developed the Application from Scratch, managed Version, and deployed the application in site.

**Project Details:**

1. Successfully delivered Patient portal module in Saudi and Myanmar which includes
2. Hardware and Environment Assessment
3. User Base Estimation Assessment
4. Implementation of Patient Portal by coordinating with Myanmar Team
5. Created deployment manual and validated user manual for patient portal deployment in any new sites
6. Successfully implemented new CALLCENTER module for MMS which includes
7. UI creation- **Angular JS**,
8. Service creation - **Java/Spring/Rest** and
9. Procedure creation
10. Successfully implemented “Https encryption” security enhancement in Patient Portal and made the application secure, by modifying the existing architecture and coordinating with MMS Tech team.
11. Improved the performance of Portal application and reduced bugs by introducing new Tools

a) **GRUNT** - Minified code for fast JS Execution

b) **JMeter** - Performance and Stress Testing to evaluate load application could handle

c) **JUnit**/EMMA - Unit testing and code coverage

**e-Hospital Information System – Billing**

E-Hospital Information System is a fully integrated, end-to-end healthcare solution. This Enterprise Managementincludes powerful modules for creating and maintaining detailed patient records across multiple sites which can be scaled for large healthcare enterprises/providers. The system helps organizations deliver the highest standards of patient care, by connecting all available information, from patient demographics to clinical data and financial reports.

**Technology:**

Core Java, J2EE, EJB, JQuery, Ajax, JSON

**Role Description:**

Involved in all phases of software development, requirement gathering , system analysis, development ,integration and deployment.

**Contribution:**

Created several Billing Administrator Modules in eHospital Information System(eHIS) Product

* Patient Search Params
* User Security Params
* Outpatient Visit Registration Receipt Format Setup
* Visit Regn Bill Rule Setup
* Outpatient Pharmacy Bill Rule Setup
* IP Bed Charges

**PAYPAL - MERCHANT REPORTING**

PayPal's Reporting Tools provide you with the information you need to effectively measure and manage your business. Measure the performance of your business with a quick monthly overview. Improve forecasting by reviewing monthly sales trends. Easily search for individual transactions or disputes.

Developed a Tool **Reporting Book** (https://reportingbook/). This Reporting Ticket Tracker provides effective tracking and handling of software issues, enhancements and overall progress.

**Technology:**

Core Java, J2EE, Struts, Oracle

**Roles and Responsibilities:**

* Completely Developed and Maintained Trac Tool for managing Project.
* Deliver solutions to the issues reported
* Solving Live Issues and enhancement

**DUN & BRADSTREET CORPORATION**

The Dun & Bradstreet Corporation is the world’s leading source of commercial information and insight on businesses, enabling companies to Decide with Confidence for 167 years. The Dun & Bradstreet Corporation is a provider of credit information on businesses and corporations.

**GLR (Global Linkage Repository)**

GLR stands for Global Linkage Repository stores the corporate hierarchical linkage information for all the linked entities and has processes built in to derive and update the linkage trees. The aim of the GLR project is creating tree derivation (hierarchical linkage building) functionality for daily extract process.

**Roles and Responsibilities:**

* Implemented a new application functionality
* Successfully Released all java enhancements
* Automated Tools for Business Requests
* Requirement Analysis and Impact Study on the migration

**VOLUNTEER ACTIVITIES:**

* **Regular Blood donor**
* Registered as an Eye Donor in an Eye Donation camp
* Provide funds and visit Orphanages

**DECLARATION:**

I do hereby confirm that the information given in this form is true to the best of my knowledge and belief.

Date:

Yours sincerely,

*` [KARTHIKEYAN K]*