kxramkumar@gmail.com Chennai, TN, India.

Passionate and dedicated professional with **16yrs 2mos** of experience (including **2yrs 4mos** of experience in onsite, **USA**) in Java development and deployment of multi-tier based applications. Worked on AWS, DICOM, JMOL, IOT(NodeMCU/ESP-12E with R307), Cloud Foundry (App, Service Broker, Services, CUPS), Bosh releases, REST web service, Spring Boot, Docker and Apache Camel. Has proven expertise in object-oriented analysis, design and exceptional record overseeing all facets of Software Development Life Cycle. Innovative problem solver with proven leadership and mentoring abilities.

Professional Experience

Fullstack Developer Freelancer, INDIA.

Dec 2018 - Till

Self Employed

- Designed and implemented a java agent application with desktop user interface; using Spring Boot as agent with PIXELMED api for DICOM parser and upload the archived images to AWS S3, Electron as desktop wrapper for AngularJS application with DICOM Web Viewer an open source DICOM viewer and interaction between them using STOMP over Websocket.
- Designed and developed a mobile portal for subscription management along with user checked in functionality using finger scanner IOT with Hive MQTT javascript api communication.
- Designed and developed IOT for R307 finger scanner module using Node MCU(ESP-12E) and communication via Hive MQTT.
- Designed and implemented order management application with both desktop and web user interface; using Firebase authentication, Firebase Realtime database and AngularJS with RXJS api.
- Designed and implemented a portal for legacy components; using Spring Boot as a server with Spring OAuth and AngularJS web application with JMOL web viewer

```
• spring_boot_2.2.1 • spring_5.2.1 • aws_java_sdk_s3 • commons_compress_1.20
```

• pixelmed_1.2.0 Parser

```
• angular_10.2.5 • express_4.17.1 • express_http_proxy_1.6.2 • rxjs_6.6.7
```

- stompjs_2.3.3 socketjs_client_1.5.1 typescript_4.0.2 dwv_0.29.0 *DICOM Web Viewer
- jmol_14.31.2 Molecule Viewer firebase_8.2.1 mqtt_4.0.0
- arduino_ide_1.8.15 ESP12E board configuration ArduinoJson.h PubSubClient.h
- ESP8266WiFiMulti.h Adafruit_Fingerprint.h SoftwareSerial

Software Lead Engineer HID Global, INDIA.

Apr 2017 - Dec 2018

- Developed SDI admin UI, with AngularJS 6.0 and Typescript 3.1.
- Integrated Membrane proxy 4.4 with SDI services with HTTPS support.
- Created Typescript reusable components and services to consume REST API's using component based architecture provided by AngularJS
- Experience in using Chrome Developer Tools and Firebug for debugging and troubleshooting the code.
- Designed and Developed SOAP and RESTful services in SDS server side using façade, BO, DAO and other design patterns.
- Created Unit test cases Using Mockito and tested the module accordingly and delivered the releases on time with high quality. Also improved the code quality by reviewing team member's code and giving quidance to them.
- Setup and configured in-house Thales HSM and cloud Luna HSM with Key fragmentation.

Technology Specialist Cognizant Technology Solutions, INDIA.

Aug 2015 - Mar 20178

- Using amazon SDK 1.11.36 API, implemented a util to map a public IP for a static IP, Map/UnMap ELB for given static IP.
- Using AWS web interface, I created an Amazon RDS Postgres server.
- Using Cloud Foundry 2.19 API, implemented login, list all services, service instances, apps and also create
 routes, deploy apps, bind apps with service instance, unbind apps with service instance etc.

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- Designed Service Broker framework using Spring Boot 1.3.7 with an existing service broker 2.10 API (spring-cloud-cloudfoundry-service-broker:1.0.0), which makes the implementation easy and maintainable for different resources and different plans.
- Configured spring boot application with vault to fetch application properties from secured vault server (spring-cloud-vault-starter-config:1.0.0).
- Knowledge on BOSH releases, orchestration of BOSH deployment with different releases and consumed BOSH API 1.0.
- Designed and developed a reverse script for auto validating existing mongo clusters using mongo java driver
 3.2.2.
- Designed and rewrote a docker based Mongo DB cluster setup using Spring, Jersey REST API with Jetty embedded server.

Associate Cognizant Technology Solutions, USA.

Apr 2013 - Jul 2015

- Implemented print functionality, using Apache Velocity for the dynamic template printing in both LASER and ZEBRA printers. I understood both architecture of service invocation for LASER and CPCL format for ZEBRA in GIF in short period
- Implemented the functionality, with a cluster of Enterprise Integrated Patterns using integration framework Apache Camel 2.8.0.
- Implemented custom request binder for CXFRS component, to achieve a unified port for multiple services. (Implementation is not required for Apache Camel 2.11 or above).
- Coordinate with the offshore team on the deliverables at the various stages of the SDLC.

Associate Cognizant Technology Solutions, INDIA.

Apr 2011 - Mar 2013

- Proof of Concept on implementing EIP used in different modules in CSOS to get initial sign off to use Apache Camel.
- Override the Apache Camel's JMS component with DynamicDestinationResolver, for IBM MQ. To solve the header junk problem while communicating with non-JMS messaging service (IBM MQ) from JMS messaging service (Active MQ).
- Integrated both pagination and sorter for given table using TableSorter framework with jQuery 1.6.3
- Developed a framework for report generation, using XML, XSLT and AJAX from jQuery.
- Integrated other subsystems through JMS 1.1, IBM MQ, XML and JAXB 2.0.

Programmer Analyst Cognizant Technology Solutions, INDIA.

Oct 2009 - Mar 2011

- Developed an Eclipse plugin with PMD and Checkstyle static analyser.
- As a Quality champion, monitor code base periodically and send reports with various analyser tools like PMD 4.2.5, Checkstyle 5.4, Javancss, LOC and Rational Software Analyser(RSA 7.5).
- Involved in defect analysis and fixing of production defects. (Analysed race condition with hashmap).
- Reviewed and re-factored existing code based on Rational Software Analyser (RSA) report generated using RSA 7.5.

Software Engineer Maples ESM, INDIA.

Aug 2005 - Apr 2007

Deputed to Tata Consultancy Services, INDIA

- Implemented generic template to populate and merge PDFs (Ordinary & Acroform) using iText 2.0 and JAXP 1.5(SAX) APIs.
- Designed file merging technique by storing Offset (start & end bytes) of each file merged.
- Implemented Log4j 1.2 using XML Configuration to implement filter information.
- Implemented persistence tier using iBatis 2.1 to invoke stored procedures and SQL statements in an Oracle 8.1.6 database
- Configured Validator plugin with Struts 1.2 and developed customized validation
- Implemented a generic job scheduling framework using Quartz 1.6
- Implemented a customized RequestProcessor (Struts 1.2) to control validation process depending on user access rights

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Software Engineer Finix Info Solution, INDIA.

Aug 2005 - Apr 2007

- As a developer participated in configuring servlets and developed Action Classes with corresponding Action Forms for various modules like User, Manager, Admin modules.
- Involved in designing and developing user interface screens using JSP tags.
- Configured Validator and Tiles plugins with Struts 1.2 and developed customized validation and reusable view components.
- Configured servlets in deployment descriptor and developed utility components.

Certificates

- Sun Certified Business Component Developer (SCBCD) for Java EE 5
- Sun Certified Programmer (SCJP) for Java 2 Platform, Standard Edition 1.5
- Oracle PL/SQL Developer Certified Associte (OCA) for Oracle 9i

Career Profile

Period	Designation, Organization & Projects	Timeline
Jan 2019 - Till	Fullstack Developer, Freelancer. (* Self Employed) DICOM Image Managment Subscription Management Order & Route Management Web Molecule	May 20 - Till May 20 - Till Mar 20 - Till Jan 19 - Apr 20
Apr 2017 - Dec 2018	Software Lead Engineer, HID India Pvt Ltd. SDI – Admin Tool SDI (Secure Delivery Infrastructure)	May 18 – Dec 18 Apr 17 – May 18
Aug 2015 - Mar 2017	Technology Specialist, Cognizant Technology Solutions India Pvt Ltd. DEP (Digital Foundry)	Jul 15 – Mar 17
Apr 2013 - Jul 2015	Associate, Cognizant Technology Solutions U.S. Corporation. GLS 2.0 International Gaps – Japan (Cognizant, USA) GIF (Global Integration Framework) (Cognizant, USA)	Apr 13 - Jan 14 Feb 14 - Jun 15
Oct 2009 - Mar 2013	Associate, Cognizant Technology Solutions India Pvt Ltd. Controlled Substance Ordering System (CSOS) WebMtracks (Sam's club Membership) Pick up Today – PUT (.com Integration) Task Management System - TMS	Feb 12 - Mar 13 Oct 11 - Jan 12 Mar 10 - Sep 11 Oct 09 - Feb 10
May 2007 – Sep 2009	Software Engineer, Maples ESM Technologies Pvt Ltd. BDSS - EZForms IAA - Acroform Conversion BDSS - IVault BDSS - EZForms Admin BDSS - EZForms 529 Prefill BDSS - EZForms IAA - Migration	Jul 09 - Sep 09 Mar 09 - Jun 09 Nov 08 - Feb 09 Jan 08 - Oct 08 May 07 - Dec 07
May 2007 - Sep 2009	Software Engineer, Finix Info Solution Pvt Ltd. Project Management System Job Portal for Headhunt India (HHI)	Mar 06 - Apr 07 Sep 05 - Feb 06