Kavitha Veeraragavan – Technology Analyst

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**Summary**

**A competent java developer with 8+ years of experience in analysis, design, development of various J2EE projects.**

* **Testing:** User acceptance testing, manual testing, automated testing RPT. memory analyzer , heap analyzer
* **6+ years** of experience in Core java(JDK1.5 and JDK1.6), Java Advanced Imaging and mobile technologies.
* Worked on projects in waterfall and agile methodology.
* Rich experience in Imaging and mobility domain and Web technologies.
* Created web UI pages using CSS, HTML5, JQuery and JSP.
* Worked on axis2 for accessing DetectRight device database webservice.
* Worked on jquery charting library for mobile visualization.
* Experience in working with multiple vendors and geographically distributed teams.
* Worked on jprobe and heap analyzer to achieve significant improvement in image rendering performance.
* Have good experience in response handling, servlet, http request handling, image processing using java imaging utilities, xml technologies, etc.
* Mobile and web App testing(manual) , preparing test cases, user guide, requirement and functional specification docs.
* Springboot webservice, microservices, exception handling, Java REST API

**Key Domain and Technical Knowledge**

* Domain : Imaging, Mobility, Visualization
* Operation System : Windows 2000 Professional, Windows XP
* Languages : java1.8
* Development Tools : eclipse 3.3.2.
* Versioning Tools : Microsoft Team Foundation Server (Microsoft Visual Studio 2010

Team explorer, Source control Explorer).

* Web Technologies : HTML, XML, XSLT, Servlet 2.4, JSP 2.0, displaytag1.1, POI, log4j.
* Middleware : Hibernate, JDBC
* Servers : Apache Tomcat 5.X, JBoss Portal Server 2.4.0, JBoss AS 4.0,

BEA Weblogic Server 8.1

* Imaging Technology : JAI(Java Advanced Imaging API), ImageIO API
* Image Editing Tool : Irfan View
* Testing Tools : Jprobe 7.0 memory analyzer, Rational performance testing(RPT),

Thread Dump Analyzer (TDA), JMap (JVM Heap Dump Tool), IBM Heap Analyzer.

* Client Side Scripting : JavaScript, Ajax, DOM, jQuery
* Frameworks : Spring boot webservices using spring initializr, microservice,

Developing REST API

**Academic Qualification**

* **Master of Philosophy** in **Computer Science** in **August 2006** from **st.Joshep’s college**, Trichy, Tamilnadu, India.
* **Master of Science** in **Computer Science** in **April 2005** from **Seethalakshmi Ramaswamy college**, Trichy, Tamilnadu, India.

**Certifications / Professional Awards:**

* IQ Foundation
* SE Technology OO Analysis and Design
* Basics of Education Domain
* Infosys certified XML Professional
* IQ Centric
* Infosys Certified Javascript Framework professional

**Won Infosys Awards for Excellence 2013-2014 in “Innovation for Initiatives Category” under name Multi-Channel Application Development Suite”**

**Foreign Languages known:**

* None.

**Total Work Experience:**

|  |  |  |
| --- | --- | --- |
| **Company** | **Period** | **Designation** |
| **WeSeeble (primary employer Emerging Alliance)** | **09-2020 to till now** | **Software engineer** |
| **Infosys Limited** | **05-2008 to 06-2014** | **Technology Analyst** |
| **Photon Infotech** | **01-2007 to 04-2008** | **Software Engineer** |
| **Trident Solutions** | **06-2006 to 01-2007** | **Software Engineer** |

**Employment Gap:**

**Took career break from 2014 till 2020 to look after my kids.**

**Projects < Last 2-3 projects>**

**Project Title: Universal Media Engine**

**Client: Infosys mconnect**

**Duration:** From Sep, 2008 to july 2013

**Description**: UME is a transcoder which takes one image as input and outputs another image based on the constraints defined by the user or Infosys mConnect. It transcode an image from one format to another and resize the image and restrict to output physical size. It is integrated with Infosys mconnect to handle image transformations as mentioned above.

*Role and Responsibilities:*

* + Single handedly designed, developed, tested and released UMEV1.0 within 6 months,
  + Development and Unit Testing using eclipse 3.3.2,
  + Build and Deployment of WAR using Ant,
  + Performance and memory leak testing using jprobe memory analyzer and RPT.
  + Participated in code and design reviews and used check style tool for code quality improvements.
  + Coordinated with multiple vendors from geographically distributed teams for a successful development, testing and deployment of a single project

**Project Title: UME Visualization**

**Client: Infosys mconnect**

**Duration:** From Aug 2008 to Dec 2013

**Description**: This component provides the interactive HTML5 based charts. End user on a smartphone can tap on the chart elements and get more details.They can also perform Pinch to Zoom in/out, Tapping, Panning of chart area are some of the interactive features in these charts. It uses jqPlot to add interactivity to the image based charts.

*Role and Responsibilities:*

* + Involved on FOSS selection activity for using charting library. Interacted with IPCell on various free open source charting library and its licenses, policy to use in project.
  + Created drillable interactive charts up to three levels.
  + A smartphone app displaying drillable charts shows first layer (say first layer has Pie Chart) to the user, user can tap on a Chart element (say Pie-sector) to open next Chart (say a Bar Chart). This drill operation can go up to three levels.
  + Provided the user with option to collapse and open levels. Individual chart has same features as that of an Interactive chart.
  + Implemented 3D version of bar clustered chart ,
  + Build and Deployment of WAR using Ant,
  + Performance and memory leak testing using jprobe memory analyzer and RPT.
  + Participated in code and design reviews and also used check style tool for code quality improvements.
  + Coordinated with multiple vendors from geographically distributed teams for a successful development, testing and deployment of a single project

**Project Title: Infosys Mconnect**

**Client: Infosys**

**Duration:** From Dec, 2013 to june 2014

**Description**: Infosys mobile enterprise connectivity middleware called as Infosys mconnect. It is a context aware, real time enterprise middleware that enables mobile services for websites and ecommerce platforms. Delivering a superior user experience without additional costs and resources. New devices do not require updates. No maintenance. Accelerated website functionality on mobile devices.

*Role and Responsibilities:*

* + Involved panel based approach of mconnect 3.8.1 release which addressing the need for a tablet /smartphone workspace for developing applications on IOS and android platform.
  + Development and Unit Testing using eclipse 3.3.2,
  + Developing different XML data types like button, Label, Image, Hyperlink and Date Component using xslt, jquery and javascript
  + Worked on the functional requirement of displaying alert div when loading mconnect page by disabling javascript. Once javascript enabled loading the page again.
  + Participated in code and design and functionality reviews.
  + Coordinated with mconnect team members and integrated UME module for thin panel release.

**Project Title: Xfactr**

**Client: WeSeeble**

**Duration:** From Sep, 2020 to till now

**Description**: XFactr is crm & sales software that does job of 3 other sales software that you have everything you need to engage, collaborate, nurture and track your leads & customers. XFactr focuses on sales process not on results. It helps the sales employee to take action on the task assigned and track the details that drives deal to closure. Consuming data from REST end point and generated consumer report and customized webpages dynamically.

*Role and Responsibilities:*

* + Handled the response using spring boot microservices and consume the data from REST endpoint
  + Handled global exception handling
  + Created buglist and testcases for mobile and web XFactr application
  + Created and maintained workflow doc.
  + Conducting daily status meeting for team of 2.

**Below are the modules and POCs I have developed during my tenure.**

**Image Caching:**

Image caching is a server side caching feature. It is intended to speed up applications performance by providing a means to manage cached images. Like any caching system Image caching is most useful when servlet performs expensive image load for reading images which are available remotely in the internet.

**Social Stack Security Framework:**

Identified framework for authenticated REST web services(Axis). Created authentication module for social media stack REST Webservices using header level authentication and HMAC authentication.

**Generic XML reader:**

Created generic xml reader for social media stack. It will cover all social networks, news and other messaging design.

**POCs/Internal:**

1. Snapshot:

Utility for capturing any live webpages as image so that user can have a look at those pages without actually visiting it. Particularly in cases where mobile devices are not able to showcase live feed pages. User can view snapshot of webpages apart from the firewall restrictions.

1. mWizard:

This mWizad application showcase the translation power in a mobile application. If the language is supported by mobile, it translates the text else send as an image. So supporting different languages in the mobile. Implementing this feature in mConnect Chat client is in progress.

1. Image Based Search Engine:

Trying to implement 2.5D view in search engine based on images. Demostrated 2.5D simulation

1. Amar Chitra Katha:

Implimented image splitting, transforming functionalities. Support to PoC team

1. Retail Dynamic Imaging:

Implementing image transcoding color, logo, logtext, special offers, gift coupon to showcase the complete retail chain. Support POC team.

**Personal Information**

* Gender : Female
* PAN number : AVRPK3767C
* DOB : 01-06-1983
* Marital Status : Married
* Visa Details ( If any) : family
* Address : Embassy Residency Phase 2

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