**RAJASHEKHARAIAH M**

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| **OBJECTIVE** |

To obtain a challenging position with a growth oriented company and significantly contribute to the success of the organization by utilizing my knowledge and experience.

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| **WORK EXPERIENCE** |

* **4+ years of experience in software Research and development (IoT / M2M).**
* Working at **Cambridge Technology Enterprises** Limited as Senior Engineer since Aug-2016 to till date.
* Worked at **Altiux Innovations Pvt Ltd** as a Software Engineer after being acquired from **P-Device Systems Pvt Ltd** (Apr-Dec 2013) since January 2014 to July 2016, Bengaluru.

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| **TECHNICAL SUMMARY** |

* Four years of extensive experience in design and development of **IoT / M2M Cloud Platform** and applications.
* Hands on experience on Core **JAVA**, **J2EE**, **SPRING**, Hibernate.
* I have developed expertise in **Javascript, JQuery, AJAX, MQTT over Web sockets**.
* Good knowledge on **IoT / M2M**.
* Hands on experience on **Java Messaging Service (JMS) and MQTT Clients**.
* Good knowledge on open source **Message Broker ActiveMQ**.
* Have good exposure to **pub/sub** model.
* Good Implementation knowledge on **RESTFull webservices**.
* Designed interfaces for IoT Platform modules in **JSON**.
* Good Implementation knowledge on MQTT Clients (Device and App) using NodeJs to connect to different IoT Platforms like Altiux **IOTEE Platform**, **IBM Bluemix Watson IoT Platform, AWS IoT and Thingworx IoT.**
* Good exposure on open source components like **Jetty**, **Tomcat**, Jasper Reporting Engine, iReport, Ponte etc.
* Implemented projects using **Maven** build.
* Extensive experience in **Integration,** deployment of web services in different servers including ActiveMQ, Jetty and Tomcat on **Amazon Web Services**.
* I have done projects using **Eclipse**, **Sublime**, **Web storm and Text Pad**.

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| **EDUCATIONAL QUALIFICATION** |

***Academic Qualification***

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| **Course** | **Institution** | **Year of passing** | **Percentage** |
| BE | UVCE, Bengaluru | 2012 | 74.30% |
| PUC | GJCB, Channapattana | 2008 | 77.67% |
| SSLC | SRSHS, Magadi | 2006 | 73.12% |

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| **TECHNICAL SKILLS** |

* **Programming Languages**: JAVA, JavaScript, and SQL.
* **Web Technology**: JAVASCRIPT, JQuery, AJAX, MQTT over Web Sockets, JMS, JSON, XML, Bootstrap, HTML5, and CSS3.
* **Database**: MySQL, Mongo DB.
* **Frameworks**: SPRING, HIBERNATE, LOG4J.
* **Web/Application Server**: Jetty9.x, Apache tomcat7.0, Apache2.
* **Messaging Server:** ActiveMQ5.10.0, PONTE.
* **Protocols:** HTTP, MQTT, CoAP.
* **Development Tools/ IDE’s**: Eclipse, Sub Lime, Web Storm, Edit plus, Text Pad.
* **Others:** RESTfull Web service, AWS (Amazon Web Services) NodeJs, AngularJs, Ubuntu, Jasper Reports, iReports, Copper Client (CoAP client) etc.

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| **PROJECT @ CAMBRIDGE TECHNOLOGY ENTERPRISES** |

**1) EAI VEM2.0**

**Team Size :** 7

**Environment :** JAVA, SPRING, AWS IOT SDK, JERSEY CLIENT, AWS EC2, AWS LAMBDA.

**Tools :** ECLIPSE.

**Client :** EnerAllies Inc.

**Description :** EnerAllies “Virtual Energy Manager” (VEM) 2.0, web-based energy management portal to support multi-site enterprises, providing centralized control and access to a range of energy cost, usage and operational information, alarms, diagnostics, and analytics. In a simple way VEM is web based application to Monitor and controlling of Thermostats.

**Roles and Responsibilities:**

Responsible for IoT Connectivity and Device Management using AWS IOT. Here device is Wi-Fi enabled thermostats.

* + Registration of Thermostat with AWS IOT.
  + Write client to create MQTT over Web socket connectivity to AWS IOT platform.
  + Write service to IoT integration if thermostat is not capable connecting AWS IOT.
  + Device Management like add, edit, delete and list of Thermostats.

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| **PROJECT @ ALTIUX INNOVATIONS PVT LTD** |

**IOTEE PLATFORM**

**1) Standard Gateway**

**Team Size :** 1

**Environment :** NodeJs, MQTT, PONTE, MQTT Client, Messaging, MQTT over WS.

**Tools :** WebStorm.

**Description :** This project is a Multi Cloud Connectivity project and it will run on any Gateway (Device). Here the Device client can connect to different Cloud IoT platforms like Altiux IOTEE Platform, IBM Bluemix IoT Platform and AWS IoT Platform. This project is responsible for establishing connectivity to different clouds, managing nodes under the gateway, maintain message formats according to individual platforms and connectivity management using REST API’s.

**Roles and Responsibilities:**

Responsible for end to end integrations from both devices to web application.

* + Do R&D on different cloud platforms like IOTEE, Bluemix IOT, AWS IOT and Thingworx.
  + Write MQTT Clients according to their standards in Gateway.
  + Write REST API’s in nodejs to manage nodes and different connectivity agents.
  + Write web application to test connected devices.

**2) IOTEE Location Service**

**Team Size :** 2

**Environment :** Java, J2ee, JMS, JSON, MySql, JavaScript, AJAX, Web sockets, Google Maps.

**Tools :** Eclipse, sublime text.

**Server :** Jetty9.0, Apache ActiveMQ5.10.0.

**Description :** This project helps to locate the location of device or gateway connected to IOTEE Platform. Once the device or gateway registered successfully with IOTEE Platform, location module will get notification. This location info of gateway we can see in admin page of IOTEE Platform. And also integrated with Google Maps.

**Roles and Responsibilities:**

I was responsible for implementing complete end to end application that includes backend API implementation and front end UI integration. Here my role as a team member involved in:

* + Responsible for writing Web Services (HTTP API) to get last location of gateway or device, last n locations, location in date range.
  + Web service to get all entities and nodes in location service (Registered).
  + Involved in writing JMS client in JAVA (Subscriber and Publisher).
  + UI integration using JavaScript, AJAX, Web sockets, Bootstrap.
  + Goole maps integration.

**3) Self-Care Portal**

**Team Size :** 3

**Environment :** JavaScript, jQuery, AJAX, MQTT over Web sockets, HTML, CSS.

**Tools :** Sublime Text

**Server :** Jetty

**Description :** This is Admin GUI, where admin can monitor statistics of ITOEE PLAFORM and can do managing (CRUD) operations. Self-Care portal gives http interface provided by all the services in platform. For Example Location Service, Identity Service, Registration Service etc.

**Roles and Responsibilities:**

In this project I worked in UI integration with platform services using AJAX. Here my role as a team member involved in:

* + Writiing AJAX Calls to platform services.
  + Parsing the JSON Response and Packing JSON Message.
  + Design and developed the required UI using JAVASCRIPT, jQuery, and Bootstrap.

**4) IOTEE Idenetity Server**

**Team Size :** 4

**Environment :** Java, J2ee, JMS, JSON, MySql.

**Tools :** Eclipse, sublime text.

**Server :** Jetty9.0, Apache ActiveMQ5.10.0.

**Description :** This project maintains the identity of Devices and Apps which are connected to IOTEE Platform. The registration of a device or app will happen against this server. This helps in authentication and secure connection to IOTEE Platform.

**Roles and Responsibilities:**

I was responsible for implementing REST API’s to create, read, update and delete the identities. As a team member involved in :

* + Responsible for writing Web Services (HTTP API) to get Identity List with different criteria like pattern, pagination etc.
  + Involved in writing JMS client in JAVA (Subscriber and Publisher).
  + UI integration using JavaScript, AJAX, Web sockets, Bootstrap.

**5) Smart Parking**

**Team Size :** 3

**Environment :** JavaScript, jQuery, AJAX, MQTT over Websocket, HTML, CSS.

**Tools :** Sublime Text

**Server :** Jetty

**Description :** This is end user application project where we can see the availability of parking slot. This has been developed for the internal demo purpose. This will show the status or occupancy of parking slot.

**Roles and Responsibilities:**

In this project I worked as integrator with server and client using AJAX and websockets. Here my role as a team member involved in:

* + Writiing AJAX Calls to platform services.
  + Parsing the JSON Response and Packing JSON Message.
  + Update status by using TWO Way communication channel websocket.

**6) Billing & Reporting**

**Team Size :** 4

**Environment :** Java, J2ee, SPRING, JDBC Template, C3PO, JSON, Jasper reports, iReport, Angular JS.

**Tools :** Eclipse

**Server :** Jetty9.0, Apache ActiveMQ5.9.0.

**Description :** This project is related to IoT billing, inspired by telecommunication billing. Here bill will get generate on the basis of how much data is been transferred in each transaction i.e send/recieve. And also generating the invoice using Reporting enigne.

Here Reporting Engine was a separate module and it was generating reports in different formats like PDF, DOCX, XLS, HTML. And this will take templates and datasource as input then generate reports.

**Roles and Responsibilities:**

In this project I implemented API’s for billing on RESTFull web services. Here my role as a team member involved in:

* + Responsible for writing API’s for CRUD Operations to components including customer, invoice etc.
  + Involved in writing API’s for generating reports (invoice) in PDF, XLS, CSV, DOCX HTML etc.
  + Designing JSON interfaces.
  + Integrating with UI using Angular JS.

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| **PROJECT @ P-DEVICE SYSTEMS PVT LTD** |

**PERSONAL PORTAL SERVER(PP)**

**Team Size :** 3

**Environment :** Java, JavaScript, jQuery, jQuery Mobile, HTML, CSS, Apache Tomcat7.0.

**Tools :** Eclipse

**Server :** Tomcat

**Description :** This project is Cloud based Personalized Mobile Cloud Application Framework to create personal cloud application for smart homes, smart communities, smart objects etc. Unique UI framework for partners to customize and develop their own branded, scalable and device agnostic User Interface.

**Roles and Responsibilities:**

In this project i worked in UI integration with PP using JAVA and development of UI using JAVASCRIPT, jQuery, jQuery Mobile, HTML and CSS .Here my role as a team member involved in:

* + Responsible for writing template code for UI sources.
  + Involved in writing integration code for UI to generate dynamically as implemented in PP using JAVA.
  + Design and developed the required UI using JAVASCRIPT, jQuery, and jQuery Mobile.
  + Testing – have to test in both local and cloud platform.

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| **TRAINING AND CERTIFICATION** |

* **JAVA and J2EE** development training from **JSPIDERS** Bengaluru.

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| **STRENGTH’S** |

* Commitment towards work.
* Sincerity, smart work and self-Confident.
* Well organized.
* Ability to blend in to team, lead and excel individual capacity.

**PERSONAL DETAILS**

**Date of Birth:** 30th July 1990

**Alternative Email :** rajuvce08@gmail.com

**Father’s Name:** Muniswamy A

**Address: #**F/3 3rd cross, sriramanagari, murugeshpalya, HAL post, Bengaluru, Karnataka -560017.

**Permanent Address: #** 106 Managal, Madabal P, Magadi T, Ramanagar D, Karnataka-561201

**Hobbies:** Swimming, playing volleyball and cricket, watching movies.