
VIBINCHANDER VENKATASUBRAMANIYAN

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Healthcare Domain/Technical Lead

PERSONAL STATEMENT

Astute and Zealous software engineer who is strong in healthcare domain, integration, algorithms and problem solving skills. Hands-on experience in requirements gathering, user documentation with proficient verbal and written communication. Interested in a challenging technical career.

EDUCATION

2011 - 2015	B.E Computer science engineering <i>Saranathan College Of Engineering</i> CGPA - 7.4
2010 - 2011	Higher Secondary School (12th) <i>SBIOA Matriculation school</i> Cut-off - 185.25 Total - 1057/1200
2008 - 2009	Secondary School (10th) <i>SBIOA Matriculation school</i> Total - 418 / 500

SKILLS

Mirth & Javascript

From Mirth Version V.2.8 to V.3.8.1 & in EX4JS and ES6JS

EDIx12, HL7v2 & FHIR

Developed Billing interfaces on EDIx12 - 270,271,834,835 and 837, Extensively worked with ORM, ORU, ADT and SIU interfaces. Hands on development on atleast 25 FHIR resources.

SpringBoot

Have hands on experience on working with two projects in Spring Boot with JPA repository. Responsible for creating API's, login frameworks, auditing etc.

Core-JAVA & SQL

Developed Custom QRDA, IHE profile libraries . Created OCR tesseract PDF to ADT development. Worked extensively in CCDA with CDAPI,MDHT liibraries. Hands-on working in SQL (MySQL & MSSQL, MongoDB) with Mirth and JSP based applications

Angular

Worked in both Angular JS and Angular 11 for two different projects & have hands-on creating quality code, developed UI as per the provided mockups

QRDA & CCDA

Built QRDA-1 & QRDA-3 & Bi-directional interfaces with CCDA Transfer Of Care (TOC) and Careplan

PROJECTS WORKED

Apr 2021 - Aug 2021	<p>Technical Lead <i>HCL Technologies Pvt Ltd (ERS)</i> Technology:</p> <ol style="list-style-type: none">1. Spring Boot / JPA2. Angular 11 <p>Roles & Responsibilities : <i>Client - Bio-sense Webster (Application Development)</i></p> <ul style="list-style-type: none">• Responsible to get the requirement for the Application development of automatic license update process of CARDIO device• Worked on Spring Boot to create multiple API for both web application as well as mobile application.• Worked in Angular 11 & created front-end application with the UI specification as provided in Mockups• Responsible for maintaining the quality of code and used Sonar cube to identify code coverage and quality• Responsible for integrating existing application with third-party application like falcon & salesforce
Nov 2020 - Mar 2021	<p>Technical Lead <i>HCL Technologies Pvt Ltd (ERS)</i> Technology:</p> <ol style="list-style-type: none">1. Spring Boot2. Angular JS <p>Roles & Responsibilities : <i>Client - Carrier (IOT integration)</i></p> <ul style="list-style-type: none">• Responsible to get the requirement for the Building Management System IOT spec• Responsible to create JAVA library & spring boot based backend application for deployment• Creating HAPI Based JAVA application to receive HL7 messages and parse them with custom JSON mapping• Developed stand-alone addon for the existing IOT HUB application• Worked on Angular JS and created user interface• Worked on spring boot backend and created multiple API's for this project
May 2018 - Nov 2020	<p>Senior SE - EMR to FHIR - Mobile Application Integration <i>Accolite India Pvt Ltd</i> Roles & Responsibilities :</p> <p><i>Client - Health Wealth Safe (Mobile Application)</i></p> <ul style="list-style-type: none">• Responsible to work with the EMR team and understand their workflow.• Responsible for converting the EMR team exported patient information to respective FHIR resources.• Responsible for developing Patient, Coverage, Insurance, Conditions, Medications resources to the mobile application• Responsible for converting the live HL7v2 feed from the hospital to FHIR resources for Mobile application.• Responsible to fetch FHIR data from the EMR to the application through Mirth Interface by converting DSTU2 to R4 format.• The Application successfully went live with three hospitals.
May 2018 - till now	<p>Senior SE - HL7v2 to FHIR - Mobile Application Integration <i>Accolite India Pvt Ltd</i></p>

Roles & Responsibilities :

Client - Caringly (Care Team Mobile Health Application)

- Converted HL7v2 messages to FHIR resources using Mirth Connect application
- Extensively worked with HAPI FHIR server as resource repository
- Responsible for developing Patient, careTeqam, Practitioner, Allergy, Observation Service Request resources & structured definitions.
- Trouble-shooting issues with Zabbix, RabbitMQ & mirthConnect on Amazon Ubuntu linux environment.
- Extensively involved with the mobile application team to understand the business flow and FHIR api's needed to perform the operation
- The Application successfully went live with one of the hospital using HL7v2 to FHIR.

Aug 2017 - May 2018

Senior SE - Radiology Application Integration (Development)

Accolite India Pvt Ltd

Roles & Responsibilities :

Client - Envision (Connect Application)

- Gathering Requirements from clients regarding interfaces to be developed
- Developing interfaces to integrate various hospitals to connect radiology application
- Developing Java based SOAP services to interact with in-house applications.
- Trouble-shooting issues with MySQL & Amazon AMI linux system to perform RCA.
- Creating custom PHP scripts to enhance application capabilities
- Currently awarded with Accolite's iGeek Award for developing stable interface development

DEC 2016 - AUG 2017

Associate SE - Care Management Tool (Development/Support)

CES Pvt Ltd

- **Technology :** MySQL, JAVA, Javascript
- **Tools :** Mirth Connect, SQL Yog, Glassfish, TomCat and SoapUI
- **Role :** Integration Engineer Consultant
- **Team size :** 4
- **Client :** GSI Health

Roles & Responsibilities :

- Ensuring all integration from clients connected to their HIE are working fine.
- To Develop new Integrations with the Clients.
- To convert inbound messages to client specific format for integration.
- To check MySQL for message transmission success or failure status.
- Checking logs of glassfish, Mail server to trouble shoot issues.

Aug 2016 - Dec 2016

Associate SE - QRDA (Development / EHR Certification)

CES Pvt Ltd

- **Technology :** MSSQL, JAVA, Javascript
- **Tools :** Mirth Connect, Cypress (3.0.2 ,3.0.3)
- **Role :** Lead Engineer
- **Team size :** 4
- **Client :** Roji Health Intelligence

Roles & Responsibilities :

- Developed complete JAVA library to generate QRDA 1 (93 Measures) and QRDA 3 (93 Measures) reporting document.
- Built generalized Mirth code to integrate with client Application registry.
- Developed enhanced features on Library to pass C1+C2, C2+C3 and C4 capability.
- Revamped the existing QRDA category1 Mirth based parser for 2014 standard specific to 2015.
- Performed Unit testing and validation of the generated QRDA 1 , 3 with Cypress tool for Drummond Certification.
- Awarded Employee of the month (EOM) for the dedicated work to complete project on time.

Apr 2016 - Jul 2016 Associate SE - Billing Interface (Development)

CES Pvt Ltd

- **Technology** : MySQL, Java, Mirth, Javascript
- **Tools** : Mirth connect
- **Role** : Interface Engineer
- **Team size** : 3
- **Client** : CareHere EMR

Roles & Responsibilities :

- Built generalized JSON structure for EDI x-12 billing interface documents to communicate with clearing houses.
- Developed Interface Channels that transforms EDI - x12 (834,271,835) message to JSON.
- Developed Interface Channels to convert JSON to equivalent EDI - x12 (837,270) message.
- Responsible for deployment and testing of EDI-x12 documents in client environment.
- Awarded Above and Beyond Call of Duty (ABCD) award for the successful completion of the project on time.

Jul 2015 - Mar 2016 Trainee SE - CCDA For Health Analytics (Development / Support)

CES Pvt Ltd

- **Technology** : MySQL, Java, Mirth, Javascript
- **Tools** : Mirth connect
- **Role** : Mirth Engineer
- **Team size** : 3
- **Client** : Hexplora

Roles & Responsibilities :

- Developed channels to parse batch CCDA to MySQL through JSON and vice-versa.
- Developed and managed bi-directional interface channels in Mirth tool to communicate with end application.
- Provided interface support for channels involving HL7v2 and CCDA medical documents.
- Responsible for designing Database structure for client's need.

OTHER PROJECTS

- Collaborating with the NGO's across the nation to solve people problem via www.vibinchander.com
- Developed independent integration engine module with Springboot and RabbitMQ.
- Worked for EMR named EHR Your Way for IHE integration using IHE profiles (ITI-8,ITI-9,ITI-45 & ITI-47) and FHIR resources.
- Co-authoring IHE profiles healthcare standards book along with Dr.Kumara Prathipatip M.D, Jeffrey Ritz (Integration specialist from GE) Book is expected to publish by December of 2020)

CERTIFICATIONS

Technical Certifications :

1. Microsoft certified Microsoft Technology Associate(MTA) on FUNDAMENTALS OF NETWORKING License no: (F083-4399).
2. Certified MongoDB developer for NodeJS course completion from Official MongoDB authority

Domain Certification :

1. Certified FHIR resource learner from Georgia Institute of Technology.
2. Certified HIPAA Privacy and security Workforce certified.
3. Undergone FHIR certification training from HL7 certified trainer Aditya Joshi.

PORTFOLIO, ACTIVITIES & AWARDS

- Developed stand alone technical blog for gathering more knowledge on Mirth and healthcare. www.vibinchander.com
- Active member of Stackoverflow online FAQ society, earned 716 reputation,19 bronze badges and 8 silver

badge as of now.

- Awarded Above & Beyond Call of Duty from CES Pvt Ltd for successful completion of Healthcare Billing Interface project.
- Awarded iGeek award by Accolite India Pvt Ltd for the successful and stable interface development.