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# VIDHYA VIKRAMAN NAIR

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## PROFESSIONAL SUMMARY

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Full Stack Developer offering 5 years of experience in engineering software for different IT organizations. Background in development of Web and Back end applications. Self-directed and motivated Software Engineer experienced working effectively in dynamic environments. Expertise in Core Java and J2EE frameworks including Spring, Spring Boot. Enthusiastic technical professional with complete understanding of entire software development life cycle. Well experienced in implementing micro service architecture and developing REST API calls and known for having talents in web development using JavaScript and Angular JS. Have knowledge in React JS and Redux. Seeking to expand talents by bringing wealth of expertise to well-established company.

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## SKILLS

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- Operating Systems - **Windows, Linux**
- Web Components – **JSP, Servlets, HTML5, CSS3, Jython, Node JS**
- Scripting Language - **Angular JS (1+), jQuery, JavaScript, React JS ,Redux**
- DBMS - **MySQL, Basic knowledge in Cassandra, SQLite**
- Design Tools - **UML, Rational Rose**
- Frameworks - **Spring MVC, JBehave, Django, Spring Boot**
- Web/Application Servers - **Tomcat, Oracle WebLogic**
- Unit testing frameworks - **Junit, Jasmine, Mockito, Karma**
- IDE - **Eclipse, NetBeans**
- Other Tools & Technologies - **Jenkins, Tortoise, SVN, Perforce, JUnit, Maven, Coverity, Dicom, JaCoco, REST API, Swagger, Ehcache**
- Development Methodology - **Agile**
- Team Building
- Quality Assurance
- Trouble Shooting and Debugging
- Web-based software engineering
- Software Documentation
- Performance Tuning
- Web development
- Software Design and Development
- Code Review

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## WORK HISTORY

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1. **Software Engineer**, 08/2017 to 04/2019  
**Baker Hughes A Ge Co LLC** – Cochin, Kerala, India

## 2. Software Engineer, 07/2014 to 07/2017

**Quest Global Engineering Services Pvt Ltd** – Trivandrum, Kerala, India

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### EDUCATION

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- **Bachelor of Technology:** Computer Science, 06/2014  
**Govt Rajiv Gandhi Institute of Technology** - Kottayam, Kerala, India

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### PROJECTS

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#### 1. ESP Monitoring Services (Company - Baker Hughes, A GE Company)

AMBIT Solutions ESP Monitoring Services provides monitoring, analytics, and proactive reporting of business-critical information in oil and gas production operations leveraging historic and real-time operational data. Key features are

- Real-time monitoring activity.
- Generating Monthly well report to ensure the wells are active or not.
- Shows ESP Performance and Modem Communication status.

Days versus Depth curve for planned and actual performance comparison

KPI Dashboards with KPIs and Multi well KPI comparisons across different rig, well, and field

#### Roles and Responsibilities

- Collaborated with cross-functional development team members to analyze potential system solutions based on evolving market requirements.
- Worked closely with software developers, testers, and DevOps teams to design and develop robust solutions in oil and gas industry to meet client requirements for functionality, scalability and performance
- Implemented **Java 8** features like Streams, lambda expressions etc.
- Wrote test cases using **Junit**, **Mockito** frameworks and done code using **JaCoCo** to ensure code quality.
- Used **Gradle and Maven** as a project dependency management and build tool.
- Supported code review activities for ensuring code quality and strictly followed coding standards.
- Developed new features to enhance oil and gas production activities using **Spring MVC architecture**.
- Migrated the existing monolithic applications to microservice architecture using Spring Boot.
- Designed and Developed REST API Calls, integrated application with REST API and supports automation testing team to build **REST API** using **Swagger**
- Migrated existing monolithic applications to microservice architecture using **Spring Boot**

- Modified existing software to correct coding errors, upgrade interfaces and improve overall performance
- Implemented multithreading using **Executor Service** as a part of performance tuning.
- Experienced in using integration engine like **Apache Camel**.
- Implemented a caching mechanism using **Ehcache**.
- Strictly followed **agile methodology** and used **JIRA** for issue tracking.
- Supported the DevOps team by providing application configurations corresponding to different project release stages.
- Involved in software development lifecycle activities like task estimation and requirement gathering.
- Revised, modularized and updated old code bases to modern development standards.
- Conducted unit testing of every feature before submitting to testers, to ensure minimum bugs.
- Used **SVN** as the version control tool.
- Used **Log4j** for logging errors, debug and info messages.
- Used **Eclipse IDE** for application development.
- Designed and developed front end using JSP, HTML, CSS3 etc.
- Used **JavaScript** for client-side scripting.
- Created CQL queries for the manipulation of data using NoSQL DBMS **Apache Cassandra**

## 2. **Workflow Manager (Employer - Quest Global. Client - GE Health Care)**

Workflow Manager is an optional worklist for Centricity Universal Viewer, used to assist trained professionals in the management of radiology workflow. Workflow Manager provides the Radiologist with clinical information access and the ability for its trained users to organize, prioritize, select, and manage exams for interpretation.

- It is a single page application built in angular JS, which is an integrated framework of a reporting application, viewer application and CCOW Applications.
- When the radiologists launch an exam in Workflow Manager, the exam will be opened in viewer, reporting applications. Radiologists can analyze the images in viewer and reports his observations in reporting application.
- The web-based application follows health care standards like DICOM, HL7 etc.

### **Roles and Responsibilities**

- Collaborated with cross-functional development team members to analyze potential system solutions based on evolving client requirements
- Worked closely with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance
- Participated in requirement gathering, task estimation etc.
- Conducted unit testing and corrected the errors if any.

- Created TDR documents and attended **TDR review** meetings to discuss the design details with client teams.
- Partnered with client's engineering team on product development, offered application support and identified prototype programs and additional design concepts for new business acquisition
- Strictly followed agile methodology and used **JIRA** for issue tracking.
- Documented the design details in client's tool.
- Used **Maven** as a build and dependency management tool.
- Developed single page application using **AngularJS**.
- Created **AngularJS** custom directives to implement pagination.
- Familiarized with health care standards, **DICOM**, **HL7** etc.
- Designed and developed UI screens using **HTML5**, **CSS3** etc.
- Familiarized with installing packages using **NodeJS**, package manager, **npm**.
- Used JavaScript for client-side validations.
- Used Spring framework for creating backend services.
- Used Junit for writing testcases for backend services.
- Used Jasmine for unit testing **AngularJS** services, controllers and directives.
- Used Log4j for logging errors, debug and info messages.
- Used Eclipse IDE and **WebStorm** for application development.
- Debugged and troubleshoot for clients, solving technical issues quickly and accurately
- Created **MySQL** queries for the manipulation of data using **DBMS**.
- Used Collaborator for submitting code for review and **HP ALM** as a defect tracking tool.

### 3. Radiology Workflow Integrator (Employer - Quest Global, Client - GE HealthCare)

Radiology Workflow Integrator (RWI) is an application that simulate the IHE radiology transactions RAD-4, RAD-5, RAD-6, RAD-7, RAD-8 and RAD-10. The main actors involved in these transactions are DSS/Order Filler, Acquisition Modality, and Image Manager. The project includes:

- Django service application which utilizes DCMTK Toolkit and includes implementation of REST APIs.
- The AngularJS SPA which includes the UI part with necessary controllers and rest calls to interact with the backend.

#### Roles and Responsibilities

- Collaborated with cross-functional development team members to analyze potential system solutions based on evolving client requirements
- Worked closely with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance
- Participated in requirement gathering, task estimation etc.
- Conducted unit testing and corrected the errors if any.

- Created **TDR** documents and attended TDR review meetings to discuss the design details with client teams.
- Partnered with client's engineering team on product development, offered application support and identified prototype programs and additional design concepts for new business acquisition
- Strictly followed agile methodology and used **JIRA** for issue tracking.
- Developed single page application using **AngularJS**.
- Familiarized with health care standards, **DICOM, HL7** etc.
- Designed and developed UI screens using **HTML5, CSS3** etc.
- Familiarized with installing packages using **NodeJS**, package manager, **npm**.
- Used **JavaScript** for client-side validations.
- Used **Django** and Jython for creating backend services.
- Used Jasmine for writing testcases for **AngularJS** modules.
- Used **WebStorm** for application development.
- Debugged and troubleshoot for clients, solving technical issues quickly and accurately
- Created SQL queries for the manipulation of data using **DBMS, SQLite**
- Used **DCMTK** library toolkit for implementing **DICOM** standards.
- Used Collaborator for submitting code for review and HP **ALM** as a defect tracking tool.

#### 4. Collab Migration (Employer - Quest Global, Client - GE HealthCare)

This application deals with processing of reports which is to be used by Insurance Companies and Hospitals. Features Implemented are:

- The reports are processed in X12 standard.
- It uses Apache ActiveMQ for messaging services and a Karaf based Talend platform for bundle deployment

#### Roles and Responsibilities

- Collaborated with cross-functional development team members to analyze potential system solutions based on evolving client requirements
- Worked closely with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance
- Participated in requirement gathering, task estimation etc.
- Conducted unit testing and corrected the errors if any.
- Created TDR documents and attended **TDR review** meetings to discuss the design details with client teams.
- Partnered with client's engineering team on product development, offered application support and identified prototype programs and additional design concepts for new business acquisition
- Strictly followed agile methodology and used JIRA for issue tracking.
- Familiarized with health care standards, **DICOM, HL7** etc.

- Designed and developed new features using **Core Java**.
- Used **JBehave** for BDD testing.
- Wrote **Junit** test cases for ensuring code quality.
- Used Apache **Tomcat** as a webserver.
- Done coverity analysis for code coverage.
- Used **XML** as the data exchange media.
- Used Eclipse for application development.
- Debugged and troubleshoot for clients, solving technical issues quickly and accurately
- Created **SQL** queries for the manipulation of data using **DBMS, MySQL**.
- Used Collaborator for submitting code for review and **HP ALM** as a defect tracking tool.
- Well familiarized with Jenkins as a build tool.

## 5. Non-Conformance Management System (Employer - Quest Global, Client - GE HealthCare)

This is a highly configurable and customizable web-based application to manage concessions across various domain.

- This is a single page application which interacts with the client system to get input data ported to UI form.

### Roles and Responsibilities

- Collaborated with cross-functional development team members to analyze potential system solutions based on evolving client requirements
- Worked closely with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance.
- Involved software development lifecycle process like Requirement gathering, Task Estimation, design and development of modules.
- Wrote **Junit** test cases for ensuring code quality.
- Done coverity analysis for code coverage.
- Used **Eclipse** for application development.
- Debugged and troubleshoot for clients, solving technical issues quickly and accurately
- Created **SQL** queries for the manipulation of data using **DBMS, MySQL**.
- Designed and developed UI screens using **HTML5, CSS3** etc.
- Familiarized with installing packages using **NodeJS**, package manager, **npm**.
- Used **JavaScript, jQuery** and **AngularJS** for client-side scripting and validations.
- Used **Spring** for creating backend services.

## 6. GE GDC Dashboard (Employer - Quest Global, Client - GE HealthCare)

This is a Single Page Application for using as a project tracker system.

Features implemented are:

- The system displays the data related to employee offsite-onsite ratio, resource allocation details in form of charts, graphs, tables etc.
- The system provides provision to upload resource details, invoice details etc.

### **Roles and Responsibilities**

- Collaborated with senior member in the development team members to understand the software development process.
- Involved software development lifecycle process like Requirement gathering, Task Estimation, design and development of modules.
- Designed and developed UI screens using **HTML5**, **CSS3** etc.
- Familiarized with installing packages using NodeJS, package manager, npm.
- Used **JavaScript**, **jQuery** and **AngularJS** for client-side scripting and validations.
- Used **JSON** for transferring or storing the data.

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### ACCOMPLISHMENTS

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Received recognition award from Baker Hughes and GE Company for implementing microservice architecture using Spring Boot.