Ramya Mohan Hegde

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IT Specialist and master’s graduate with 6 years of experience with significant Expertise in Requirement Analysis, Application Design, Development, Implementation and Testing of mid and large-scale enterprise web applications. Seeking to have a challenging career in software development and cloud technologies with growth potential in technical and functional domain where I can apply my technical skill and knowledge in best way possible.

**Technical Proficiencies**

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| **Languages****:** | Python, JavaScript, Typescript, Java/J2EE, HTML5, SQL, CSS |
| **Frameworks**: | Vue.js, Angular, Django, Spring boot, Node.js, JPA, ROBOT framework, Applitools, Chart.js, D3.js |
| **Databases:** | MongoDB, Oracle, MySQL, Microsoft SQL server, PostgreSQL |
| **Tools & Techniques:** | GIT, Docker, Microservices, GraphQL, Tableau, Adobe XD, JMeter, Jasmine, Weka, JIRA, Rally, Postman |
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**Education**

**University of North Carolina at Charlotte**

Master of Science | Jan 2020 – Dec 2021 | GPA: 3.9/4

* **Major**: Information Technologyandconcentration **:** Data science
* **Web development courses:** Web Application Development, System Integration, Human Centered Design
* **Data Science related courses**: Big data Analytics, Visual Analytics, Knowledge Discovery in Databases, Machine Learning
* **Cloud related courses**: Cloud Data Storage

**Technical Projects**

* **Airplane Crash and Fatalities Analysis and Visualization | Tableau | Visual Analytics**

Individually developed a visualization on world air crash dataset which includes plane crash data from 1908-2020; Created views to analyze casualty variation over years, fatalities analysis based on different aircraft types, operators, and routes.

* **Loss ratio prediction for auto insurance | Predictive analysis project | Big Data Analytics**

Built analytics model identifying loss ratio of policies in auto insurance data using real-world dataset. ***1st Place, Loss Ratio Prediction Competition – Kaggle – 12/2020.***

* **Employees Stress prediction | Predictive analysis | Machine Learning**

Implemented 82% accurate predictive analysis model on Kaggle 2014 dataset employee mental stress.

* **Personal Budget Management Application | Angular + Node.js | Web Development**

Individually developed a personal budget managing app using angular, Express.js and MySQL. Dashboard visualizations were implemented using D3.js and Chart.js.

* **Streaming service provider prototype | Adobe XD | Human Centered Design**

Created UI wireframes, paper prototypes and then digital mockup or application prototype using Adobe XD for streaming service provider application.

**Visvesvaraya Technological University (VTU)**

Bachelor of Engineering | Sep 2008 – Jul 2012 | 77.21%

* **Major**: Computer Science
* **Relevant Courses** : Database Management System, Operating System, Java Programming, Software Architecture, etc.

**Work Experience**

**General Electric (GE) Aerospace**

Software engineer-Full stack | Bengaluru, India | July 2016 – Dec 2018

**Technologies utilized:** Java 8, Spring boot, Microservices, RESTful APIs, JPA, OAuth2, Angular, Vue.Js, Docker, Junit, Mockito, GIT, Postman

**Responsibilities:**

* Project work involved the development of multiple web applications which ease the aviation engineers work and provide one single window for accessing named Digital Thread Engineer.Few apps which I majorly worked on are Data Intelligence, Design Record Book, Data Distribution, Part Change Management
* Developed architectural design and functional requirements into a technical work.
* Developed SPA UI pages using Angular and Vue.js.
* Involved in the development of backend functionalities using Java REST services, spring boot and Spring Data JPA. Created Microservices using Spring Boot connected it with the spring data JPA, interacting through RESTful web services.
* Used JPA annotations and created Entity classes for ORM mappings, HQL queries for data retrieval.
* Implemented OAuth2 for RESTful webservices.
* As part of the Test-Driven Development, created testcases in Junit and Mockito. System testcases, JMeter performance testing configuration.
* Worked in a fully agile development setup. Used Rally for user stories and task management.
* Leaded the two members of the team helped them to understand the business requirement and helped them when they faced technical challenges.
* Participated in peer code reviews in GIT pull request setup.

**TATA Consultancy Services**

Systems Engineer | Bengaluru, India | Nov 2012 – July 2016

**Technologies utilized:** Java, Spring MVC, PL/SQL, Hibernate, Postman, Tomcat, Oracle 11g.

**Client:** Oman Insurance

**Responsibilities:**

* Part of the project to build a web application for the professional investment and insurance policy advisors which included various type of insurance policies that can be of any available line of business products and commission distribution module for the advisory services.
* Participated in (OOAD) analysis and design for the project and prepared the technical documents for developed modules.
* Involved in the development backend code using Java/ J2EE, JSF 2.2, Spring 3.0 and hibernate 3.0.Worked on POSTMAN tool for testing Web Services.
* Participated in architectural design and defining the business flow of the applications.
* I was responsible for providing resolutions for technical issues related to policy endorsement documents generation.
* Participated in static as well as git code review and incorporated best practices in the project.