**Hemanth Kumar Vanama**

Full Stack Developer

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# **PROFESSIONAL SUMMARY:**

* Around 8 years of extensive IT experience in all phases of Software Development Life Cycle (SDLC) which includes development, design, analysis, testing and Integration of various web based and client/server applications in multi-platform environments with JAVA/J2EE technologies.
* Extensive experience in core Java and Advanced Java frameworks such as **Spring** (MVC, Security), Servlets along with other java technologies.
* Expertise in developing and registering web services using **JAX-RS, REST**, registry along with developing micro services and other middleware.
* Extensive experience with building cloud-based applications.
* Has vast experience in relational databases like **Oracle, MySQL, DB2, MongoDB, NoSQL, SQL and PL/SQL.**
* Worked on MVC - **JSF and spring framework**. Experience with **JUnit, Jasmine and Maven scripts.**
* Expertise in developing Web Pages **using HTML5, CSS3, Bootstrap, JavaScript, jQuery, Ajax, ReactJS, AngularJS and VUE JS** with webpage cross browser compatibility and responsive web design and have knowledge on Server scripting language like NodeJS.
* Experienced in developing web-based applications using **Java/J2EE, Servlets, Spring MVC, Spring Security, Spring Boot, JDBC, Web Services (SOAP & Restful services)**
* Management and design of integrated build pipelines using continuous integration workflows such as **Jira, Git, Jenkins, Docker.**
* Developed Service Oriented Architecture (SOA) and Micro \Service Architecture based J2EE applications.
* Utilized Java 8 features like Lambda expressions and Stream API for Bulk data operations on Collections which would increase the performance of the Application.
* Explored Splunk, Kafka along with other open-source projects to create a real time analytics framework. Created Alerts, Dashboards and reports using Splunk.
* Use APIGEE to create proxies with security layer on top of the APIs.
* Strong experience in developing and deploying applications through application servers like **Apache Tomcat, IBM WebSphere, WebLogic and Jboss** along with environments like **Node.js**.

**EDUCATION:**

* Bachelor of Technology in Engineering, JNTU, Hyderabad, India.

**TECHNICAL SKILLS:**

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| **Software Development & Management tools** | Eclipse, Dream Weaver, SVN, GIT, Sublime Text, Oracle SQL Developer, PuTTY, Apache Ant, Apache Maven, MS Office, Jira, GIT, Docker, Google Web Toolkit.  |
| **Operating Systems** | Microsoft Windows, UNIX, LINUX, Windows Server |
| **Java Frameworks and Technologies** | Spring, Servlets, JSP, JDBC, EJB, JAX-WS, JAX-RS |
| **UI Development Technologies** | HTML, CSS, JavaScript, ReactJS, AngularJS, Backbone.js, Knockout, jQuery, Bootstrap, AJAX, JSON  |
| **Cloud Technologies** | AWS (Amazon web services) -EC2, API- Gateway |
| **Test Methodologies** | Junit, log4j, TDD, SDLC, UML, Design Patterns, Unit testing, SOA, Agile, Scrum, Waterfall model  |
| **Database Management** | Oracle, MongoDB, IBM DB2, SQL, NoSQL, MySQL, MS SQL Server, PL/SQL,Postgres |
| **Web/application Servers** | Apache Tomcat, Oracle WebLogic Server, IBM WebSphere Application Server (WAS), JBoss (WildFly), Apache HTTP Server.  |
| **Other Languages and Technologies** | C, Python, XML, REST |

**PROFESSIONAL EXPERIENCE:**

**Nationwide Insurance, Columbus, OH March 2020 – Present**

**Role: Application Developer (Full Stack Developer)**

**Responsibilities:**

* Developing RESTful API’s using Spring Boot, Spring Data JPA and Java with maven scripts to run the servers from scratch.
* Used **spring dependency injection**, annotations, components to implement service layer and controller layer of application
* Documenting API using Swagger Open API as per company standards.
* Created Docker files to build jar file image and deployed the application into Kubernetes pods.
* Involved in Cloud Native deployment working sessions.
* Writing unit test cases using Junit and Mockito frameworks.
* Used sl4j, lo4j for logging in the API’s and maintained these logs by pushing them into Splunk. Used Splunk for support during issues and created alerts, reports. etc.
* Used New relic monitoring tool which is Nationwide’s internal too monitor our API’s
* Used APIGEE to create proxies for API’s providing authorization and authentication with OAuth policy.
* Worked with Postgres database for CRUD operations using Restful API’s.
* Creating web pages using Angular 2+, typescript, CSS, HTML.
* Using Git as our version control and Jira has agile tool.
* Was involved in Planning and design phase of the API’s.
* Experience with Eclipse, Visual Code IDEs.

**CenturyLink, Dublin, OH October 2018 – February 2020**

**Role: Software Engineer (Full Stack Developer)**

**Responsibilities:**

* Developing microservices using **Spring Boot 2.0** and Rest API’s using **Spring MVC** which are being consumed on the Front-End of consumer application.
* Developing **RESTful** web services by accessing third-party API’s using **OAuth** authorization
* Wrote build scripts using maven and **Apache Tomcat**, **netty** to run the servers.
* Created POJO’s and DAO’s for the database entities using **Spring Data JPA** annotation mappings
* Writing the test cases with **Junit, Mockito** frameworks and maintaining the code **Git** version control
* Deployed applications into Continuous integration environments like **Jenkins** to integrate and deploy code on CI environments for development testing.
* Implemented **Swagger Open API** for the microservices for Documenting Rest API.
* Project is tracked and managed in **Git-Lab** and we are following Agile Methodology.
* Used **spring dependency injection**, annotations, and **Spring MVC** components to implement business layer and controller layer of application
* Worked on Rest Web services as well as Node Rest framework for backend services, used **Mongo DB** (NoSQL) for database services.
* Involved in designing and building microservices using **ANT**, **Maven**.
* Developed Microservices using **spring boot**, **spring security** and deployed to JSON web token cloud.
* Worked on creating Microservices for company’s consumer mobile app **using java, Spring and Ant**.
* **Consumed API’s** created by other teams that maintain different data of the customers and created new API’s for apps filtering and altering the data as per the requirements.
* Worked continuously on **storing, altering, and pushing** the files to production on **dimensions server**.
* Worked on creating **Splunk** reports, Dashboards and Alerts for monitoring the logs and pro-actively analyzing the failures daily and provided continuous support during production and for production failures.
* Worked on creating a POC for using SharePoint API to store the files, images, and documents on the Site.
* Code is maintained in SVN for one of the projects and has familiarity with SVN and also Rally for maintaining the project state.
* Developed webpages for a consumer application at enterprise level using JavaScript, HTML, CSS, and Front-End Frameworks like **Vue Js**.
* Designed Prototype and project layout skeletons using **Vue JS, Vuex and CSS/LESS and HTML5.**
* Used various **jQuery and Bootstrap** plug-in like date picker, Bootstrap selectors.
* Experience in Single Page Application (SPA) using **Vue Js**, created Multiple & Nested Views, Routing, Controllers, Services and Custom Directives, **Node.js**, Bower, Grunt
* Created and configured new **JIRA** projects and worked with departments to maintain existing JIRA projects.
* Used log4j to print the logging, debugging, warning, info statements.
* Brief experience on implementing the **Vue Js** in creating animations based on CSS classes for a new requirement surfaced for the client.
* Used **Junit and TestNG** testing Framework as a test runner with Selenium.

**Environment:** *Java, J2EE, Git, Spring, Core Java, SOAP/Rest, Web Services, JIRA, Linux, NOSQL(MongoDB), Angular JS, React.JS, VUE JS, JUnit, ANT.*

**Golden Living, Canton, MA Feb 2017 – October 2018**

**Role: JAVA Full Stack Developer**

**Responsibilities:**

* Defined and constructed layers, server-side objects and client-side interfaces based on J2EE design patterns, Developed and implemented **spring and J2EE based MVC** (Model-View-Controller) framework for the application.
* Designed Prototype and project layout skeletons using **React JS, jQuery and CSS/LESS and HTML5.**
* Experienced in developing web-based applications using **Java, XML, CSS, HTML, DHTML and JavaScript.**
* Implemented the associated business modules integration using **spring and Hibernate data mapping.**
* Used spring dependency injection, annotations, and Spring MVC components to implement business layer and navigation part of application
* **RESTful** web services using Jersey for JAX-RS implementation.
* Worked on SOA Web Services using **SOAP with JAX-WS** for transmission of large blocks of XML data over HTTP.
* Involved in designing and building microservices.
* Used various **jQuery and Bootstrap** plug-in like date picker, Bootstrap selectors.
* Exposed and consumed SOAP based Web Services to communicate between systems.
* GUI design and development using Java Swing, JFC Used for open source web testing.
* Used **Active MQ** to improve the stability and scaled the system for more concurrent users.
* Developed web application and Implemented user interface **CSS, HTML5, JavaScript, and jQuery**.
* Wrote SQL queries, stored procedures, and enhanced performance by running explain plans.
* Configured and verified AWS workstations as per application requirement **.**
* Developed Microservices using spring boot, spring security and deployed to JSON web token cloud.
* Developed the multi-threaded framework with Object Oriented Analysis and Design **OOAD concepts,** Java Concurrency utilities and **Service Oriented Architecture SOA** mostly in cross platform
* Used Microservice architecture, with Spring Boot based services interacting through a combination of **REST and Apache Kafka** message brokers.
* Used **Java Messaging Services (JMS**) for reliable and asynchronous exchange of important information such as payment status report.
* Experience in Single Page Application (SPA) using **ReactJS**, created Multiple & Nested Views, Routing, Controllers, Services and Custom Directives, **Node.js**, Bower, Grunt
* Worked on Rest Web services as well as Node Rest framework for backend services, used **Mongo DB (NoSQL)** for database services.
* Developed the Web application using **Spring MVC, Ext-JS, Html and JavaScript**.
* Created and configured new **JIRA** projects and worked with departments to maintain existing JIRA projects.
* Used **log4j** for logging and **SVN** for version control.
* Brief experience on implementing the **ReactJS** in creating animations based on CSS classes for a new requirement surfaced for the client.
* Creating a responsive web application integrating Twitter Bootstrap with **ReactJS** and media queries.
* Developed Maven scripts and developed builds using Maven and continuous integration servers like **Jenkins.**
* Used Maven goals for testing and packaging the various components and releasing on **Apache Archiva** for easy accessibility and maintenance within the organization
* Consumed Web Services for getting the credit card information from third party application.
* Used **Junit and TestNG** testing Framework as a test runner with Selenium.
* Used to test performance both on static and dynamic resources using JMeter.

**Environment:** *Java, J2EE, AWS SDK, Ext JS, Git, GWT, Swing, JFC, Spring, AWS SNS/SQS, hibernate, Core Java, SOAP/Rest, Web Services, JavaScript, \ UML, HTML5, CSS, SASS, JIRA, Linux, JAX-WS, JSF, UNIX, Selenium NOSQL(MongoDB), Angular JS, React.JS, AJAX, Apache JMeter, JQuery, JUnit, Maven, Oracle 10g.*

**Dept. of Health Care, NC June 2016 – Jan 2017**

**Role: Full Stack Developer**

**Responsibilities:**

* Solved complex problems during the development, weighing multiple business and technology factors.
* Investigate emerging technologies and build prototypes to show their applicability to the product roadmap.
* Collaborated with cross-functional teams to define, design and ship new features
* Designed user interfaces in **Angular JS, Ajax, Java Script, and CSS** that will be integrated to Spring MVC.
* Worked with business analysts to decompose the capabilities into discrete Micro Services.
* Implemented the Service, Controller and Security layers of the Spring IOC and Spring Security.
* Develop business components using **Spring Boot, Spring AOP, Spring IOC and Spring Annotations.**
* Proposed and implemented modules for generating excel report for each execution using OPENPYXL.
* Developed Webpages using UI frameworks, **Angular JS and Ext Js, PHP, Node JS and Backbone Js.**
* Using Angular JS handled server push data retrieval and web socket.
* Leveraged Python Multithreading resulted into processing of thousands of files in few seconds.
* Developed and Consumed Web Services using SOAP and Restful API. Performing Load Test using **SOAP UI.**
* Created popup forms using **Bootstrap Modals, AngularJS Models and AngularJS Controllers.**
* Used **Gradle-node-plugin** to manage the install of **Node and NPM** (Node Package Manager) from Gradle build to deliver consistent behavior whenever we build.
* Implemented couple of Amazon Web Services (AWS). Developed continuous delivery pipeline using **Docker**
* Used **Version One** tool for tracking stories and tasks, **Git** as a version control tool and used **WebStorm** as the IDE
* Controlled the log information by using framework **Log4j**.
* Wrote queries to retrieve the JSON data from MongoDB into the application.
* Used **Spring Boot** which is faster in building Microservices and developed spring-based applications with very less configuration.
* Extensively worked on consuming RESTful Services by making AJAX calls and process the JSON response.
* Queried against **PostgreSQL** database and generated an SSRS report
* Performed system monitoring using **Cloud Watch** in AWS Cloud.
* Used **Jenkins** as the integration tool and improved scalability of applications on cross-platforms.
* Debugged and modified software components of the application in WebStorm IDE.
* Drafted comprehensive reports to track bugs and design flaws using **JIRA**.
* Strengthened developmental methodologies by introducing a code quality document using Confluence.
* Deployed applications into Continuous integration environments like Jenkins to integrate and deploy code on CI environments for development and testing.
* Performance Benchmarking for Web service APIs involving Garbage Collection tuning and **JBoss** Tuning.
* Improved Application runtime drastically by resolving Performance issues in Database and Applications.

**Environment:** *Node JS(NPM), Web services, J2EE, AWS, Angular JS, Springs, Micro Services, JQuery, GIT, Ajax, MongoDB, Postman, Slack, Git, React JS, Bootstrap, AWS (Lambda, S3, EC2)*

**Federal Reserve Bank, SFO, CA September 2015 – May 2016**

**Sr. Java/J2EE Developer**

**Responsibilities:**

* Worked on the development and testing of the infotainment module using Agile (SCRUM) methodologies.
* Used **Angular JS** as framework to create a Single Page Application (SPA) which can bind data to specific views and synchronize data with server.
* Refactored and enhanced an existing Angular JS application to follow strict MVC patterns for improved source code maintenance which resulted in significant percentage of code reduction, ease of upgrade, scalability, ease of developer spins up and enhanced performance.
* Used **Angular JS, Node JS and Bootstrap** in effective web design.
* Involved in enhancement of existing application utilizing Angular JS created role-based HTML navigation menu where in menu items changes dynamically based on the values derived from the database in the form of XML.
* Design & Develop Data Model for Global Trip Record based on the Cassandra best practices for data modelling.
* **Cassandra** Cluster planning which includes Data sizing estimation, and identify hardware requirements based on the estimated data size and transaction volume
* Worked on **Node JS** providing an event-driven architecture and a non-blocking I/O API that optimizes an application's throughput and scalability.
* Used various Core Java concepts such as Multi-Threading, Exception Handling, Collections to implement various features and enhancements.
* Used display tag to render large volumes of data. Bean, HTML and Logic tags are extensively used to avoid java expressions.
* Implemented client-side Interface using Node JS and Used for creating reusable UI components.
* Worked on **RESTful** APIs for HTTP requests between client and server.
* Used **Spring framework** to achieve loose coupling between the layers thus moving towards Service Oriented Architecture (SOA) exposed through Restful Services.
* Built spring-based Java microservices to support enterprise web application.
* Created and injected spring services, spring controllers and DAOs to achieve dependency injection and to wire objects of business classes.
* Used Spring Batch to design a lightweight and comprehensive solution to enable the development of batch applications.
* Developing or maintaining a production-level cloud-based architecture in AWS, including creating machine Images like AMI
* Worked with NoSQL database MongoDB and developed custom **MongoDB** applications specific to clients' needs.
* Worked exclusively on Tomcat for managing performance and security optimization for Web Applications.
* Used **GIT** for source control and developed a logging component using **Log4J** to log messages and errors.
* Developed and implemented Business Requirements using Spring MVC framework. Implemented cross-cutting concerns such as logging, authentication and system performance using Spring AOP.
* Implemented RESTful Web services in Service Oriented Architecture (SOA) to retrieve data from client side and made REST API calls from Angular JS and parsed the data to client and handled the security and Authorization using Spring Security and OAuth authentication protocol respectively.
* Developed strategies and supported tools to create an efficient automated integration and release process using Jenkins.
* **Ant** is used for building the application EAR.
* Analyze and resolve conflicts related to merging of source code for GIT.
* **Log4j** is used for logging purposes and debug levels are defined for controlling what we log.
* Expertise on Selenium Data Driven framework and integrating it with **Maven** [Build Management Tool], **TestNG** [Unit Testing tool] and **Jenkins** [Continuous Integration Tool].

**Environment:** *XML, XSL, Angular Js 1.5, Node Js, React Js, Bootstrap, HTML5, JavaScript, CSS, Ajax, Spring 3.x ,Git, Aws, Jenkins, OOPS, Web Services, JSON, Ant, Log 4j, Oracle DB.*

**Symphony Teleca, Hyderabad, India Jul 2012 – June 2014**

**Web Developer(Intern for 1 year)**

**Responsibilities:**

* Actively involved in technical meetings, requirements gathering, analysis, planning, effort estimations, development and testing.
* Responsible for creating front end applications, user interactive (UI) web pages using web technologies like **HTML5, CSS3, JavaScript, jQuery, AJAX, JSON, Bootstrap**.
* Worked on **PL/SQL functions/procedures, packages**.
* Actively involved in analysis, detail design, development, bug fixing and enhancement in agile methodology.
* Build/Release Engineering Automation with DevOps tools like Used **Kubernetes and Docker**.
* Responsible for testing in different devices such as IOS devices, iPad, desktop.
* Used **Spring Beans** to encapsulate business logic and Implemented Application MVC Architecture using Spring MVC framework and handlebars.js as the templating engine.
* Created Spring Batches for running batch jobs and documented the use of Spring Batch.
* Developed server-side RESTful services and called them from angular controllers.
* Used Spring JDBC template for persistence with data base.
* Worked on Cross-browser Compatibility of UI pages. Implemented for internet browsers such as Chrome, Firefox, and IE.
* Developed client's interface in MVC modeling using code igniter framework.
* Created Stored Procedures, Functions and Views according to given business logic.
* Developed packages for implementing business logic through procedures and functions.
* Re-designing/ developing the main website to improve user experience and add new functionality
* Created as well as consumed the **SOAP** as well as RESTful web services using **WSDL, SOAP, JAX-WS, JAX-RS, CXF and JAXB** and used Maven for building and deploying Application.

**Environment:** *HTML5, CSS3, jQuery, JavaScript, AJAX, JSON, Node.JS, Bootstrap, DOM, Java, JSP, XML, Eclipse, MySQL, SVN, Apache Tomcat, Oracle.*

**Crossover, Hyderabad, India May 2011 – June 2012**

**Java/J2EE Developer(Intern)**

**Responsibilities:**

* Involved in Analysis and Design of the Project, which is based on MVC (Model-View-Controller) Architecture and Design Patterns.
* Involved in developing prototypes of the product.
* Involved in development of presentation components using Swings.
* Created **UML** Use Cases, Sequence diagrams, Class diagrams & Page flow diagrams using Rational-Rose.
* Designed GUI Components using Tiles frame work and Validation frame work.
* Designed and developed UI using **HTML, JSP** where user items listed for auctions.
* Developed **ANT** scripts for builds and deployments.
* Developed **Controller Servlets, Action and Form objects** for process of interacting with Oracle database and retrieving dynamic data.
* Responsible for coding SQL Statements and Stored procedures for back end communication using JDBC.
* Parsing of XML documents was done using **DOM and XML** transformation was done using XSLT.
* Contemporary applications rely on relational databases, NoSQL databases and messaging infrastructure for achieving the internet scale. Cloud Foundry exposes **MySQL, PostgreSQL, MongoDB, RabbitMQ** as services that offer the database and messaging capabilities.
* Wrote **JavaScript** validations on the client side.
* Involved in writing Detail Design Documents with UML Specifications.
* Involved in unit testing and system testing and responsible for preparing test scripts.
* Responsible for packaging and deploying components in to the Tomcat.
* Used Java IO to create reports, which were mailed to manager every hour.
* Responsible for performance tuning of the product and eliminating memory leakages in the product.
* Participated in Code Review meetings with developers.

**Environment:** *Core Java, Java Beans, JSP, Jbuilder, JavaScript, Servlets, JDBC, XML, HTML, DOM, Tomcat, UNIX, Oracle SQL.*