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| **Nilim Prasad Sarma**  **B.E (Computer Science and Engineering)**  **Total Exp.: 0.6 Years** |  |

**Summary**

* I Nilim Prasad Sarma, working in Test Yantra Software Solutions as a **AssociateSoftware Engineer**

**Technical Skills**

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| **Languages** | Java 1.8, SQL 5.5., HTML 5, XML (Basics), CSS 3 with Bootstrap 4 |
| **J2EE Technologies** | Servlet, JSP and JDBC |
| **Frameworks- Back End** | Hibernate 5 with JPA, Spring 5.0 (Core/IoC, MVC, DAO, REST, Boot), Log4J |
| **Design Patterns** | Singleton, Model View Controller (MVC), Data Transfer Object (DTO), Data Access Object (DAO) and Factory Pattern |
| **RDBS Applications** | MySQL 5.5 |
| **Web Servers** | Apache Tomcat 8.0 |
| **Code Quality Tools** | SonarLint & SonarQube |
| **Version Control System** | Git with GitHub |
| **Build Automation Tool** | Maven |
| **Other Tools** | Tortise Git, Eclipse, Visual Studio Code,STS, Fiddler, SQL Plus, MySQL Workbench and MS Office (Word, Excel & Power Point) |
| **Software Development Processes (SDLC)** | Waterfall Model and Agile |

**Project Details**

1. **“EmployeeManagementSystem” Web Application Development**

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| Front End Technologies | HTML,CSS, Bootstrap, JavaScript and Angular |
| Back End Technologies | Core Java,Spring, Hibernate |
| Design Patterns used | MVC, DAO, DTO and Factory |
| RDBMS Application | MySQL |
| Tools Used | Eclipse |
| Duration | Oct 2020 to Ongoing |
| Team Size | 4 |

**Summary:**

We have developed this application as part of J2EE Course and it simulates the behaviour of any real time web applications by having various/common functionalities.

We have developed this Employee Management System which is a distributed application, developed to maintain the details of employees working in any organization. It maintains the information about the personal details of their employees, also the details about the payroll system which enable to generate the payslip. The application is actually a suite of applications developed using Java.

We have developed this web application using MVC, DTO, DAO and Factory design patterns. In this application we focused more about **backend code** rather than **frontend code** and hence we developed simple UI’s using plain HTML and CSS.

**Responsibilities:**

As a **Developer,** I am involved in

* Designing the DB where we created below tables to store various employee’s information
* login (to store employee’s username and password )
* employee(to store employee’s various information such as name, age, date of birth, designation, address, phone number etc.)
* Developed a “EmployeeManagementSystem”, a Java utility class, which get the common web application information like DB URL, DB user name and password, etc., from property file and pass it to other Java programs of web application
* Developing Java Beans to transfer the data between Model & Controller as well as between Controller & View
* Developed DAO classes using JDBC to interact with MySQL dataBase
* Developed Factory class to get an instance of DAO class
* Designing simple UI’s part by using HTML & CSS with BOOTSTRAP