**Binod Raj Pandey**

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**Summary**

* 3 years of professional experience as a software Engineer in Java programming.
* Good Communication skill.
* One and half year of part time paid Assistant Lecturer in IOE Thapathali Campus.
* Two years of experience as a Java Instructor in IT training Nepal.

**Professional Skills**

**Key Skills:**

* Hands-On knowledge on Spring-boot, spring data, JMS, Bash script, micro-services, Jenkins, Docker, Vagrant, Git etc.
* Developing enterprise application in agile methodology (Kanban and Scrum).
* Strong object oriented concept and rich knowledge on Design Patterns.
* Familiar with Jira (for issue tracking), Confluence (for documentation), crucible (code review) etc.
* Sound knowledge on Machine learning, Spark, Hadoop etc.
* Good Communication skill.

Programming languages: - Java, Scala, python, C++, C, MATLAB

Front-End: Angular2, Primefaces , CSS-Bootstrap, JSP, JavaScript, JQuery etc.

Test API: Junit, Selenium, Cucumber, Jmock, mockito, TestNG etc.

Building Tools: Maven, Gradle, ANT

Databases: My-SQL( MariaDB), NoSQL(Cassandra, Redis, MongoDB)

IDE: Eclipse, NetBeans, Scala-ide, visual-studio-code, Anypoint studio, Codeblock, Notepad++, sublime text, Atom etc.

Tools: FileZilla, Putty, Git, Cygwin, Conemu, Commander etc.

Framework: - Spring-Boot, EJB, JSF etc.

ORM: - JPA/Hibernate (Spring data)

Platforms: Windows, Ubuntu, Centos7

Others: - Strong knowledge on Agile, Machine Learning, Hadoop, Spark etc.

**Professional experience**

**Fusemachines Nepal**, 4/2016 – Current

Address: Hattisar, Kamaladi, Kathmandu. http://fusemachines.com.np/

Position: Software Engineer

**Thapathali Engineering College**, 10/2014 – 04/2016

Address: Thapathali, Kathmandu, +977 14218300 http://www.thapathalicampus.edu.np

Position: Assistant Lecturer (part-time paid)

**Diyalotech Pvt. Ltd.**, 03/2015-06/2016

Address: Teenkune, Kathmandu.

Position: associate software Engineer

**Projects:**

**Client Management Platform**

**Project Description:** It’s a project to manage multiple clients along with their projects for outsourcing company. It also integrate with learning management platform for Engineer to grow their academic knowledge.

**Project Duration**: 6 months

**Responsibilities**: Back-End developer

1. Discuss about architecture and data model of a client management platform.
2. Maintain central authentication
3. Manage meeting minute, status, comments, likes in the comment or status etc.
4. Uploads user data in Amazon S3.
5. Write unit and integration test.

**Drive-Sync**

**Project Description**: It’s a project related to vehicle tracking especially designed for Insurance Company for the premium.

**Project Duration:** involvement: May 2016 – now (still running for feature upgrade)

**Responsibilities:**

DriveSync has different repositories among which I mostly involved in Marvin repository, Enrollment automation, Allianz Account Management and Testautomation. Marvin is different repository which decide which device is compatible for a given vehicle as well as it provides fuel economy for a vehicle in different road (city, highway) and in different temperature. It helps user to lower their road usage charge (RUC).

1. Discuss about architecture and data modelling of multi tenancy behavior of Marvin Server.
2. Developing software architecture for Marvin to support multi tenancy feature for the all clients (insurance companies).
3. Convert EJB project to Spring-Boot Projects.
4. Change services to support backward compatibility.
5. Add feature for multi-tenancy behavior.
6. Manage Security for some endpoints using OAUTH2
7. Import vehicle data obtained from the different Vendor.
8. Import and export vehicle compatibilities with different device for different client to the centralized marvin server.
9. Conducting unit test of service and controller, repository test, integration test using cucumber and selenium.
10. Reviewing and resolving issues and software bugs.
11. Build project in Jenkins server and make distribution file in nexus server.
12. Deploy marvin in AWS.
13. Documentation on confluence.

TestAutomation:

It is another repository of same DriveSync project which is used for integration test for trip ingestion, enrollment automation, Allianz-account-management, credential management, and different other repo for different version of Drivesync.

* 1. Write cucumber test for enrollment Automation, trip ingestion, Allianz-Account-Management etc.
  2. ActiveMQ Configuration and use it for logical coupling to interact with Drivesync server for enrollment automation.
  3. Jetty server configuration for Callback request from Drivesync for asynchronous communication.
  4. Create Docker image/compose for different services and put them in Docker registry.
  5. Configure and Run Test on Jenkins server

**SIM Tracker Master**

**Project Description**: It’s an ANT project contributed to a comprehensive solutions for Nepal Telecom sim dealer, sim purchase and distribution modules. Features include user-controlled, role-based permissions, detailed reporting and module-based security. Working with cloud based technology.

**Project Duration:** involvement: April 2015 – August 2016 (still running for other maintenance)

**Programming Duration:** 4 months of work (8-9 hours of work of coding and testing daily)

**Tools:** XAMPP control Panel, SQL yog, NetBeans IDE, Git Bash.

**Responsibilities:**

1. Developing software architecture, class diagram, uml diagram, system flow diagram.
2. Writing the behavior and helper for implementation in jsf/java.
3. Conducting development level testing.
4. Reviewing and resolving issues and software bugs.
5. Used: EJB, Hibernate, JSF, Prime-faces, Bootstrap3 and GlassFish application server

**Water Tariff System**

**Project Description:** designed for the online payment of water tariff consumed in the customer water meter using eSewa(electronic payment service) or via counter.

**Project Duration:** involvement: August 2015 – December 2015

**Programming duration:** 4 month of work (4-5 hours of work of coding and 3-4 hours of testing daily)

**Tools:** XAMPP control Panel, SQL yog, NetBeans IDE, Git Bash.

**Responsibilities:**

1. Assisting on developing software architecture, class diagram, uml diagram, system flow diagram.
2. Assisting team members and reporting to the project managers.
3. Implementing features as per client’s requirements.
4. Programming for different transactions like monthly billing, daily transaction report, slab wise report, meter reading etc .
5. Worked on HQL and native sql(hibernate query language required for different transactions)

**Futsal management system**

**Project description**: It’s a Maven Project developing an integrated application for data entry, access and reporting on a centralized, web based platform, featuring detailed reporting, and supporting optimal management for futsal, as well as role-based module access control set by the administration.

**Programming duration:** 7-8 hours of work of coding and testing

**Tools:** XAMPP control Panel, SQL yog, NetBeans IDE, Git Bash.

**Responsibilities:**

1. Developing software architecture, class diagram, uml diagram, system flow diagram.
2. Implement feature like daily schedule management, futsal field seat reservation and cancellation, admin and customer part pages design as per client requirement discussing with project manager.
3. Project estimation, implementation of business logic and testing.
4. Used: EJB, JSF, Hibernate, Primefaces, Bootstrap3 and glassfish application server.

**Achievements:**

* BE Entrance Rank 33 in IOE/Pulchowk.

**Scholarships:**

1. 4 year scholarship from Institute of Engineering , Pulchowk Campus
2. Mahatma Gandhi Scholarship awards 2008, Indian Embassy

**Seminars**

* Military App Camp 2015, Nepal Army
* Training on Astronomy10-days training 2013, Ministry of Science and Technology
* One day workshop on Open Source Technology, FOSS Nepal

**Education**

BACHELOR’S DEGREE 2010-2014

Bachelor in Electronics and Communication Engineering

IOE, Pulchowk Campus, Tribhuwan University