

# Bishwadeep Roy

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<https://github.com/bishwadeeproy>

## Summary

- Having 4 years of rich experience in Java Development
- Exposure in Microservice architecture
- RESTful web-services development
- Exposure in Networking domain project
- Analytical approach for problem solving
- Expertise in Storage And Virtualization products
- Java Full Stack Development
- Experience in partner integration projects
- Worked on multi-threaded code base
- Exposure in VMware vSphere Environment
- Good communication skills and an excellent team player

## EDUCATION

Bachelor of Engineering in Computer Science, R.G.P.V, Bhopal, 2015 (CGPA: 7.8)

High School (Science), Kendriya Vidyalaya, Chirimiri, C.G, 2011 (82%)

Secondary School, Kendriya Vidyalaya, Chirimiri, C.G, 2009 (78%)

## EMPLOYMENT

**InfoBeans System Pvt. Ltd.**, Indore, India

Jan 2019 - Present

**Senior Software Engineer - Java**

- ☐ Implemented asynchronous RESTful APIs using Executorservice Framework.
- ☐ Converted monolithic modules to microservices using spring boot and netflix eureka technologies.
- ☐ Utilized Java.net package to implement IPV6 protocol support for virtualized Debian box.
- ☐ Improve the code readability by removing noise from model classes using fluent setters.
- ☐ Improved the plugin server performance by implementing in memory lightweight cache.

**InfoBeans System Pvt. Ltd.**, Indore, India

Aug 2015 - Jan 2019

**Software Engineer - Java**

- ☐ Improved the SOAP service performance by implementing multithreading using Executor thread pool.
- ☐ Utilized frameworks such as Hibernate and Spring for writing DataLoader, Beans etc.
- ☐ Designed and implemented RESTful web services.
- ☐ Fixed Bugs!. in legacy product code base.
- ☐ Leveraged knowledge in Full Stack Web development, JavaScript, JQuery, HTML5 and debugged using Chrome Developer Tools.
- ☐ Implemented modular pattern in JavaScript to improve the code readability and maintainability.

## TECHNICAL SKILLS

- ☐ **Technologies:** JAVA, JAVA 8, Spring Boot, Microservice, RESTful Web-Service, Spring, Netflix Eureka, Hibernate, SOAP, JUnit, Mockito, JavaScript, JQuery, HTML5, Swagger, JSON, XML (XSD), PERL, MYSQL
- ☐ **Tools:** Perforce, Git, Review Board, Rally, JIRA, Putty, WinSCP, ANT, Gradle, Maven, Nexus Master
- ☐ **Operating System:** Windows, Debian Linux

- 🔗 **Networking:** IPv6 | IPv4 Protocols
- 🔗 **Development Platform:** Eclipse, VSCode, Sublime, STS
- 🔗 **Familiar:** VueJs, NodeJs, JVM language: Kotlin
- 🔗 **Virtualization:** Vim25, ViJava, VMware vSphere, ESXi

## SOFTWARE PROJECTS

### Data Availability Service for Virtual VMs in vCenter vSphere

**Role:** Java Engineer

Data Availability Services with data protection in the cloud GUI. This hybrid cloud data service application enables you to simply and intuitively orchestrate data movement from primary to secondary to cloud S3 storage. Simplified orchestration improves performance of backup workflows when protecting large numbers of volumes, thereby increasing productivity, reducing cost and providing rapid time to business insight.

- 🔗 Converted dashboard and reports monolithic module to microservices using Spring boot.
- 🔗 Wrote RESTful web-services for dashboard and report microservices.
- 🔗 Consumed server XSD contracts in plugin to write business logics using VMware vSphere SDK.
- 🔗 Implemented in memory lightweight cache to discovery virtual entities periodically.
- 🔗 Utilized: Spring Boot, RESTful webservices in Spring, Java, MySQL, Hibernate, Perforce, Review Board, JIRA

### IPv6 protocol support for Virtual Console

**Role:** Engineer

Virtual Console for vSphere software is a single vCenter Server plug-in that provides end-to-end lifecycle management for virtual machines in VMware environments using storage systems. It integrates smoothly with the vSphere Web Client and enables you to use Single Sign-on (SSO) services. In addition, the Summary page allows you to quickly check the overall status of your vSphere environment.

- 🔗 Learned to play with Debian networking file system.
- 🔗 Utilized Java.net packages to provide IPv6 protocol support in product Java code base.
- 🔗 Implemented network configuration settings feature for debian box using PERL.
- 🔗 Wrote Java service wrapper to enable IPv6 protocol communication.
- 🔗 Wrote first boot network configurations for debian box.
- 🔗 Utilized: Java.Net Package, PERL Script, Putty, WinSCP, Debian O.S

### Backup and Recovery Plugin for Virtual VMs in vCenter vSphere

**Role:** Java Full Stack Engineer

Backup and Recovery Plug-in for VMware vSphere provides support for virtualized applications in Windows or Linux environments when you use the its GUI to perform backup, recovery, and cloning operations. It reduces the complexity of protecting virtualized applications by natively leveraging the Plug-in for VMware vSphere for all SQL, Oracle, and Windows file system data protection operations on virtual machine disks (VMDKs), raw device mappings (RDMs), and NFS datastores.

- 🔗 Worked as Full Stack Java developer.
- 🔗 Implemented UI screens and service layer using JQuery, JavaScript and HTML.
- 🔗 Implemented modular design pattern to improve the single file restore code maintainability.
- 🔗 Implemented RESTful web services using Spring.
- 🔗 Utilized: Spring MVC, Spring RMI, Java, JavaScript, JQuery, HTML, CSS, SlickGrid

## Virtual Console for VMware vSphere

Role: Engineer

Virtual Console for vSphere software is a single vCenter Server plug-in that provides end-to-end lifecycle management for virtual machines in VMware environments using storage systems. It integrates smoothly with the vSphere Web Client and enables you to use Single Sign-on (SSO) services. In addition, the Summary page allows you to quickly check the overall status of your vSphere environment.

- ❑ Implemented asynchronous RESTful Web Services using WS callable mechanism.
- ❑ Using cascading design pattern removed the noise from the Modal Classes.
- ❑ Utilized Executor service thread pool to improve SOAP APIs services performance.
- ❑ Fixed Bugs! in maintenance branch code base.
- ❑ Utilized: Java, Spring MVC, SOAP UI, Perforce, Review Board

## ADDITIONAL EXPERIENCE

### Yukti Backup Scheduler for FreeNAS Storage Virtualization OS (InfoBeans Innovation Day Showtime Project!!)

[https://github.com/bishwadeeproy/yukti-backup-scheduler/blob/master/Yukti\\_Architecture\\_Doc.pdf](https://github.com/bishwadeeproy/yukti-backup-scheduler/blob/master/Yukti_Architecture_Doc.pdf)

- ❑ Designed architecture and Implemented backup scheduler for Yukti application using Spring boot; Micro-service; Netflix Eureka.
- ❑ Designed and created UI screens for Yukti using VueJs, HTML5.
- ❑ Utilized: Spring Boot, Netflix Eureka, Spring + Quartz, Embedded H2 DB