

## Backia Subramani

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### Summary:

- Over Five Years of Experience in Software **Analysis, Design, Development, Deployment and Testing** of Java, JEE & .Net applications.
- **Extensive DevOps engineering experience with a deep understanding of CI/CD tools and processes.**
- Delivering high quality code and collaborate with other engineers to push the products and services into production
- Expertise in **Jenkins, , Team city, Octopus, GitLab, MDeploy, OneOps, AnthillPro, Cueme, Puppet, Atomic, Teamforge, Confluence, JIRA, Sharepoint and Putty.**
- Expertise in configuring and deploying applications to Pivotal Cloud Foundry (PCF).
- Experience in building, Deploying and Integrating with **Ant** and **Maven**
- Expertise in configuring **IIS, NLB , DNS.**
- Expertise and setting up **blue green deployment** infrastructure for **continuous deployment.**
- Experienced in **Agile/Scrum** and **TDD** (Test Driven Development) software development methodologies.
- Experience in **Java, Spring, Spring MVC, Spring Boot, Junit, Servlets, JDBC, MySQL, GlassFish, SVN, GIT, GitHub, Stash, BitBucket, Svn2git, NetBeans, Eclipse, MyEclipse** and **Visual Studio.**
- Good exposure to Java/J2EE technologies like **JSTL, JavaBeans, Scriptlets and EL.**
- Expertise in working on service management systems such as **Remedy** and **ServiceNow.**
- Expertise in writing **Powershell** scripts for automating deployments and remote configurations.
- Excellent knowledge of databases like **Oracle, Derby, MySQL, MS SQL Server** and **MongoDB.**
- Good knowledge in making use of **Junit**, and **Selenium** automation and **Functional testing.**
- Hands on experience in solving software design issues by applying **Design Patterns** including **Singleton** Pattern, **MVC** Pattern, **Factory** Pattern, and **DAO** Pattern.
- Experienced in in creative and effective front-end development using **HTML, JSP, JavaScript, XHTML, Ajax, CSS** and **JQuery**
- Expert level knowledge in **Jasper Reports** to write in the targets like **PDF, Microsoft Excel** and **CSV**(Comma Separated) files for JEE applications
- Designed **REST API's** to facilitate low-cost integration of the application
- Extensive experience in building and deploying applications on Web/Application Servers like **WebLogic, WebSphere, JBoss, IIS** and **Tomcat**
- Familiar in using **ELK Stack** and **IAS** tools like **Salt Stack**
- Having a very good knowledge of **IMP**(Integrated Metaomic Pipeline) to generate a reproducible data and workflow visualization
- Having a knowledge of **AWS** and **Cloud** based platforms.
- Worked in an Agile, collaborative environment to build, deploy, configure, and maintain systems, which may include software installations, updates, and core services.
- Proficient in scripting language such as **Powershell, Bash** and **Shell Scripts**
- Working with development teams to enable a continuous integration environment that sustains

high productivity levels and emphasizes defect prevention techniques.

- Monitor the performance of the applications and platforms to ensure max uptime
- Created automation and deployment templates for relational and nosql databases (standalone and RDS), including **MSSQL**, **Mysql** and **MongoDB**
- Actively involved in the analysis phase and the client discussion phase of the Java/J2EE project during University Internship.
- Demonstrated ability to work independently as well as in a team environment and able to thinking outside the box to get things done

### Technical Skills

• <b>Framework/Technologies:</b>	J2EE, Servlets, Multithreading, JSP, JSTL, JAXB, JNDI, EJB, JDBC, JavaScript, Ajax, JQuery, AngularJS, Bootstrap, CSS, Html, XML, JSON, Spring, spring MVC, Spring Boot, Junit, Hibernate, JPA, Web Services, asp.net core.
• <b>Development Tools:</b>	OneOps[Cloud], AWS, Azure, PCF, Cloud Foundry, Eclipse, MyEclipse, NetBeans, Visual studio, Spring, Struts, Visual Studio, Jenkins, TeamCity, Octopus, Project Atomic.
• <b>Database:</b>	Oracle, MongoDB, MySQL, SQL Server, Microsoft SQL Server, Derby and Informix
• <b>Languages</b>	Java, C#, C, SQL, PL/SQL
• <b>Operating Systems:</b>	Windows, Unix, Linux and Red Hat Linux
• <b>Web Server:</b>	Apache Tomcat, WebLogic, GlassFish and JBoss, IIS
• <b>Practices:</b>	Object Oriented Design, Optimized Programming, DB Designs, Test Driven development
• <b>XML Technologies</b>	XSD, XML AND DOM
• <b>Version Control Tools</b>	GIT, GitLab, SVN, TFS, and StarTeam

### Professional Experience

**Dell EMC - Round Rock, Texas**

**July 2017 – Present**

**DevOps Engineer**

**Project: Dell Premier B2B online**

**Project Summary:**

Dell EMC sells data storage, information security, virtualization, analytics, cloud computing and other products and services that enable organizations to store, manage, protect, and analyze data. I was working as a software developer responsible for developing .net core based microservices and web applications. Also responsible for configuration and deployment of applications to VMs as well as to pivotal cloud foundry infrastructure. Leveraged microservices architecture to build services for b2b Onboarding application and robotics.



**Responsibilities:**

- Setup an end to end **CI/CD** environment for applications using **team city** and **octopus** and enabled **continuous integration** and deployment of apps into VM infrastructure as well in to **cloud foundry**.
- Applied Agile Test Practices SCRUM , Scripted Test Cases for Test Driven Development **TDD** and developed test cases for story card based on Acceptance Test Driven Development **ATDD**
- Responsible for setting the deployment configurations for **.Net** apps through **Teamcity** and **octopus**
- Delivering high quality code and collaborate with other engineers to push the products and services into production
- Building automation tools for installing and provisioning cloud applications
- Playing a key role in automating deployments
- Used **OctoPack** to build the project into Nuget files and **Git** for version controlling
- Used **JBake** for the central repository to record of all the source files and documentation
- Participated in the coding and development part of critical section of the project.
- Pushed **.Net microservices** to **PCF (Pivotal Cloud Foundry)** and tested it by using **Swagger**
- Developed task automation and deployment utilities using **Powershell**
- Wrote custom monitoring and integrated monitoring methods into deployment processes to develop self-healing solutions.
- Used **Junit** to write the test cases.
- Used **FogLight** to monitor the Database performance and used **Splunk** to monitor the logs and events
- Developed **Stored Procedures** as a part of development.
- Followed **AGILE** methodology in the project, which optimizes cost and performance.
- Also helped solve critical issues emerging in the application post its release.
- Used **Sql Server** and **MongoDB** database and **Windows Server 2012 R2** server to deploy the applications.
- Used **ELK Stack**(ElasticSearch, LogStash and Kibana) for monitoring and logging.
- Familiar in **IT Cloud**, VM provisioning and expanding the Drive capacity.
- Implemented a Continuous Delivery pipeline with **Docker**, **GitHub** and **Google Cloud (GCP)**.
- Used **GitLab** for build, running Tests and pushing the packages to **Cloud native platform(Pivotal Cloud Foundry)**
- Used **Kubernetes** for automating deployment, scaling and management of **Docker** containerized applications
- Using **ServiceNow** for Incident management.
- Troubleshoot and resolving issues in development, test and production instances.
- Actively participated in daily standup **Scrum** meetings.
- Worked on building and deploying **.Net framework** and **.Net Core** based applications through **Teamcity** and **octopus**

#### Environment:

ReactJS, Web Pack, TeamCity, Octopus, GitLab, GitHub, TFS, Jira, Confluence, SharePoint, FogLight, Splunk, ElasticSearch, LogStash, Kibana, AWS, Docker, Kubernetes, PivotalCloudFoundry, LaunchDarkly, Visual Studio, .net, .Net Core 2.0,

**Educational Services Center Region 20 - San Antonio, Texas Jan 2017 – Jun 2017**



## Devops Engineer / Java Full Stack Developer

### Project: Business Service TXEIS

#### Project Summary:

ESC, Region 20 positively affects the learning community through high quality, cost effective products and services. Developing and managing the Human Resources, Procurement, Finance, Purchasing, Budget, Accounts Receivable and Security administration modules in the Business Administration and Management services. I was a DevOps and Java engineer responsible for .net and java release management and developing web applications.

#### Responsibilities:

- Used **Maven/Ant** to build the project into WAR and EAR files and **Git** for version controlling
- Developing the software solution and writing code using **Test Driven Development TDD** process.
- Used **Nexus** for the central repository to record of all the source files and documentation
- Participated in the coding and development part of critical section of the project.
- Implementing the application using **Spring Framework** especially **Spring Boot**, which is based on Model View Controller design pattern.
- Developed Spring configuration for dependency injection by using **Spring IOC** and **Spring Controllers**
- Developed the UI using **JSP, JSTL, JavaScript, AJAX, CSS** and **JQuery**
- Used **JUnit** to write the test cases.
- Hands on experience of working on **JQuery** and reports using **iReport (Jasper Reports)** tool to write the dynamic contents in **PDF** file and **Microsoft Excel** file.
- Used **Salt Stack (Puppet, Chef and Ansible)** for configuration management to deploy in Cloud environment.
- Implemented **CI/CD** pipeline by utilizing **GitLab**
- Implemented a Continuous Delivery pipeline with **Docker, GitLab, Kubernetes** and **AWS** AMI's, Whenever a new github branch gets started, Jenkins, our Continuous Integration server, automatically attempts to build a new **Docker** container from it, The Docker container leverages Linux containers and has the AMI baked in.
- Developed **Stored Procedures** as a part of development.
- Used **Hibernate** to form persistence objects to interact with database
- Followed **AGILE** methodology in the project, which optimizes cost and performance.
- Also helped solve critical issues emerging in the application post its release.
- Used **WildFly** as a database and **JBOSS** application server to deploy the applications.
- Involved in migrating the budget modules in **Spring MVC**.
- Actively participated in daily standup **Scrum** meetings.

#### Environment:

JDK1.8, Spring Boot, Spring MVC, Spring IOC, Maven, Ant, Jenkins, Unit Testing Framework, JBOSS, WildFly, Restful Web Services, JUnit, PL/SQL, JSP, XML, HTML, JSTL, CSS, JavaScript, JQuery, JIRA, Docker, AWS, Teamforge, Confluence, Jasper Reports, SVN and GIT

**Walmart - Bentonville, Arkansas July 2015 – Dec 2016**



## DevOps Engineer and Java Developer

### Project: Global Integrated Fulfilment

**Description:** This is the next generation global fulfillment capability for **E-Commerce** whereby stores and clubs are used as fulfillment centers to gather merchandise to be dispensed, shipped or delivered to the customer. The intent is to provide a capability that can be introduced to new global markets as well as sunset the current collection of one-off legacy fulfillment applications and systems.

### Responsibilities:

- Integrated **Jenkins** with **Atomic** tool to deploy the Property files in all the environments.
- Used **AnthillPro** and **Cueme** to deploy the UI applications, **mDeploy** and **OneOps(Cloud)** for War files, **Puppet(Foreman)** for configuration management and **Atomic** for Property files
- Made use of **Maven** as a building tool, wrote dependencies for the jars that need to be migrated.
- Used **Jenkins** to automate compile and build the application to generate **WAR and JAR** files for **CI(Continuous Integration)**.
- Developed **AHP** configurations to deploy the application utilities in different environments.
- Deploying all the **GIF** components in various environments by using various tools.
- Configured the **Jenkins** for automatic deployments in **Atomic** when Developer gives the build and used **Putty** for validation.
- Creating training orders on a daily basis to the actual US stores through **SOAPUI** service and creating Work Orders for UK Walmart Stores through BMC Remedy.
- Responsible for creation, implementation and validation of all the **Change Request Queries (CRQ's)** and **Incident Management** for **Production Issues**.
- Worked on migrating from **SVN to GIT**
- Used **Stash** for Git repository management
- Worked with various teams to integrate the application with UI from different markets.
- Involved in complete development of '**Agile Development Methodology/Scrum**' and tested the application in each iteration.
- Involved in writing the test plans, data and test cases for functional specifications using **Junit**.
- Involved in discussing, understanding and analyzing the requirements received from business and designed approach towards implementing the requirements.
- Developed and Consumed **Restful Web Services using Jersey**
- Refactor, debug and fix the bugs as part of Support and Maintenance.
- Developed scripts used for deploying and validating the application.
- Actively participated in daily standup Scrum meetings.

**Environment:** JDK1.8, Spring, Struts, Hibernate, Maven, Apache Tomcat Server, Informix, Restful Web Services, SOAPUI, JSON, Junit, PL/SQL, HTML, CSS, JavaScript, AHP, Foreman, SVN, GIT, LeanKit, SonarQube, BMC Remedy, mDeploy, One Ops, AnthillPro, Cueme, Puppet, Atomic, Teamforge, Confluence, Jenkins, JIRA, Putty, Hpaln, SVN and GIT.

**SkyNetz Infoway, India**

**May 2011 – Dec 2013**

**Java Programmer**

**Project 1: Claims Management system (CMS) May 2012 – Dec 2013**

**Description:** Incidents were report to the claim department through online or telephone or fax. The department processed the claims and a claim number has been assigned for future use. Auto policy of the policy order has used extensively to do the claim process. Used Tomcat Server and SQL server.

**Responsibilities:**

- Was involved in all the phases of the project. Developed the use cases, class diagrams and the sequence diagrams.
- Designed in NetBeans framework and **J2EE** design patterns.
- Developed the presentation tier using **JavaScript, Servlets and JSP**.
- Coded back end database functions and stored procedure for the application.
- Used Junit for **unit testing**, **Apache** Tomcat as a server and **SQL Server** as a Database.

**Environment:** Java 1.5, HTML, CSS, JavaScript, Junit, JDBC, SQL Server, Apache Tomcat, JSP, Servlets, Eclipse.

**Project 2: Hospital Management Information System**

**May 2011 – Apr 2012**

This Desktop application consists of six modules: Administration, Appointments, In-patient, Outpatient and billing. The Administration Module takes care of all general transactions. The Appointments Module gives appointments to patients.

**Responsibilities:**

- Involved in design of the user interface in **HTML, JavaScript and JSP**.
- Implemented server side validations in Servlets.
- Developed connection components using the **JDBC**.
- Used MS-Access database, NetBeans IDE development tool and Deployed in Derby.

**Environment:** JAVA, HTML, JavaScript, JSP, JDBC, Servlets, MS-Access, Derby.

### Academic Projects

**Immigration Forum – Capstone project**

**Technologies Used :** Java Servlets, JSP, J2ee, JavaScript, HTML, CSS, Derby Database, GlassFish server, NetBeans IDE

**Duration:** 3 months (Mar 2015 – May 2015)

**Project Description:** This is a web application developed with HTML, CSS and JSP at the client side and used servlets and JSP at the server side. This web application is an open source Forum and WIKI contains



many immigrant related topics. This will allow users to refer and search for immigration related topics and create new topics for any new questions that were not answered previously. Authenticated users of this portal will be able to new Questions and reply to any existing Queries in the forum. Also it contains the WIKI section where Authenticated users will be able to contribute to various details of Immigration topics such as different types of visa and documentations required for applying those visas. This web application also providing simple Profile management capabilities such as Managing the user account details and resetting the password etc.

**Responsibilities:**

I was responsible for designing user interface with the help of CSS, HTML and Javascript. Also, I have worked with Netbeans IDE to develop JSP and servlet pages to enable server side processioning. I have worked with Derby Database to create necessary Tables to persist the data. I have used Black box and white box testing methods to test the application for any issues.