VIVEK JAPE

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Status: US Citizen

**Professional Summary**

* Experienced in software and system enhancement implementation, system specification development, and system application testing.
* Experienced trainer of operational and technical procedures.
* Recommended procedures that solve complex business problems regarding hardware and software capacity and limitations.
* Responsible for meeting and exceeding all defined target goals and timelines
* Designed and tested web-based JAVA applications
* Ability to work under pressure
* Comfort with RHEL and HP-UX
* Worked with source code version controlled such as Git, and Jenkins for bug Tracking and Project Management.
* Proficient working knowledge of Oracle DB
* Middleware: IBM MQSeries
* Strong experience in Spring Framework modules
* Used Junit for unit testing and implemented with Log4j to provide logs of exceptions.
* Used PL/SQL for views, indexes and stored procedures in oracle database using TOAD and Query optimization.
* Public Key Infrastructure technologies, public & private key with TLS and SSL
* Worked on shell scripting like ksh and Perl.
* Worked on Network technologies like TCP/IP, DNS, Firewall, Nmap, VPN
* Wrote CI/CD automatization loading applications on servers.
* Worked on Site Reliability Engineer for projects gaging the requirements.
* Worked on monitoring tools improving system resiliency, performance and efficiency.
* Worked on migrating projects onto cloud.
* Worked on cybersecurity methodology for standardizing security protocols for DoD.

**Certification and Awards**

* + - AWS Solutions Architect Associates
		- Certified Comp Tia Security+ SYS0-501



**Education**

* + - Master in computer Science. (M.Tech from JNTU Hyderabad India).
		- Master in Mathematics (M.Sc from Osmania Hyderabad India).

**Technical Skills**

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| --- | --- |
| **Technologies** | Full Stack Java development, Python, Microservices, HTML5, Spring MVC, Hibernate, Hadoop, RESTful, SOAP, Sprint Boot, API Gateway, Spark, Scala, Kafka, Zoo Keeper. |
| **Databases** | Oracle 12c, MySQL, MongoDB, NoSQL |
| **Cloud** | AWS |
| **Operating System** | HP-UX, RHEL |

**Experience**. **e Solution Architect Inc**

**Developer/Architect/Infrastructure/SRE. Montgomery AL March 2016 - till date**

Solution Architect and Infrastructure engineer. March 2016 - present.

Architected and developed applications for the US Airforce to communicate and interact with other DoD technical systems. This work requires security clearance.

**CDRS**

 This project is for the US Air Force, refactoring the Perl project into Java JSF.

The application was developed in AWS cloud allowing the air force personnel to log in the cloud with the CAC card and authentication and authorization was done. Appropriate monitoring tools were used to debug and observe. Resolved issues in the existing application and modified for ease of use.

* + My involvement was to understand the functionality and convert the code into Spring MVC preserving the same look and feel.
	+ Git was used for version control and storing the application code.
	+ Maven was used to deploy and install application builds.
	+ Architecting cloud migration of application from on-premise
	+ Created DevOps environment for application hosting.
	+ Front-end was also tested with Angular 7 and nodeJS

**Environment:** Java, JSF, Spring framework, Maven, Git, Eclipse, HTML, JUnit, AWS EC2, S3, AWS beanstalk and Lambda, Cloud watch, SAML Security, Slack.

**Platform**: AWS cloud

**ARMS**

ARMS project is for the US Air Force for documenting the training, flight details, flying hours and reports. ARMS application was built for cadets to enter their flight details/ training from paperwork to online. This was also used by the management to create report and evaluated the cadet’s caliber. Gathered requirement and resolving issues.

* + Multiple modules were created in microservices thus resulting in improving scalability and availability of the system.
	+ Reduced cost of infrastructure by leveraging right AWS services based on the application needs.
	+ Improved database performance by redesigning some SQLs and using indexes appropriately.
	+ Created virtual hosts on the EMX5.6 for application development/testing/database servers.
	+ Installed Redhat operation system for Linux use.
	+ LAN/WAN configured for VM hosts for application development/ Database servers/Test servers and for UAT.
	+ Used Python for Database connectivity.
	+ Created bash shell for CI/CD pipeline and integration.
	+ Created Stories in Jira for agile for 2 weeks sprint. Created SVN server for version control and storing the application source code.
	+ Jenkins was configured to create the latest code build from SVN and to deploy. Encryption and Digital signature were used for integrity and non-repudiation.
	+ Data modeling for the ARMS.
	+ Created an API Security keys with CAC allowing the user to login to the web application.
	+ The application was tested for SQL injection and Cross Reference with Sonar Qube.
	+ Tested and configured the source code as per the standards of DoD DISA STIG requirements. Web Server Certificates was configured to initiate a secure session with browsers.

Client testing was done on AWS cloud. Application was deployed using AWS beanstalk.

**Environment:** Java8, Python, JSF, Spring MVC framework, Microservices, API calls, Maven, Eclipse, HTML, JUnit, JMockit, JBoss, Tomcat, Git, Oracle 12c , SQL Queries, EMX5.6, Web Certificates, Encryption, MD5 Hash, Sonar Qubes, Jenkins, Oauth, ssl/tls, Jenkins, Monitoring tools. Microsoft 365 tools, Slack.

**Operating System**: RHEL on VMx

**Verizon wireless Alpharetta GA 1998- 2015**

**Solution Architect, Operations, Development, SRE.**

Architected and developed software used in the telecom industry leveraging full stack Java experience. Worked on SDLC and Agile methodology.

**RSS Billing and Provisioning**

Provisioning and billing for the retail customers and 4 Million reseller subscribers with profit of about $130 Million every quarter. Verizon sells time slice/Data/SMS/MMS to the reseller, which in turn sells to the subscriber. The rate plan depends on the number of subscribers each reseller has, and voucher were created, and the payment was updated on the account of the reseller.

* + Monitored the application for CPU utilization, disk utilization and processing requests on the load balancer.
	+ Was in-charge of running the application 99.99% with the reseller provisioning subscriber.
	+ Created bills and reports for the subscriber’s voice/txt/SMS/data usage to the resellers monthly.
	+ Interacting with other systems for data storages for legal and audit.
	+ Serve as lead resource responsible for overall design and development of application.
	+ Designed and developed RESTful web services.
	+ Redesigned processes for transmission and processing files between Verizon and resellers resulting in significant cost savings as well as improved scalability of the application.
	+ Streamlined production and operations support of the system for offshore model.
	+ Used SOAP for clients to connect to RSS for Subscribers update.
	+ User testing was done one AWS cloud with application built using AWS beanstalk deployments.

**Environment:** J2EE, JSP, ANT, Eclipse, HTML, Tomcat, Git, Oracle 11, SQL Queries, Spunk, Load Balancer, Shell Script, SSH, REST, IBM MQ series, nginx, HP QC.

**Operating System**: HP-UX

**Verizon Centralized Roaming System.**

Home built application for implementing the pre-MDI allocation to the subscriber. VCRS include the roamer database for the Verizon customer roaming on the other carrier’s footprint and updating the home locator resources and setting up the MSCID and point code on the Verizon switches.

* + Architected the application by creating the frame work for easy of use to the internal customer for CRUD using full stack Java development.
	+ Engaged in full product cycle from design, development, testing and debugging to deployment.
	+ Performed architecture review of the system with architecture team to evaluate solution design and also selection of new technologies.
	+ Implemented the Web Services leveraging SOAP, XML, and WSDL standards.
	+ Created a nonfunctional requirement a batch process to audit the switches and created batches in the roamer database to update on the switches.
	+ Created a backend interfaces connecting to the network switches like Alcatel-Lucent, Nortel, Ericsson, Motorola for updates and audit.
	+ Data modeling for VCRS application.
	+ Implemented 6-sigma and reducing the processing time from 2 hours to 20 min.

**Environment:** Java, JSP, Spring MVC, ANT, Eclipse, SVN, Oracle 10, Shell Script.

**Operating System:** HP-UX

**Other projects**

Win4 Subscriber billing: Java based application for billing subscribers using Win4

OnStar: Java based application for provisioning and billing subscribers using OnStar

Win4: Java based application for provisioning subscribers using Win4 services. This is earlier version on OnStar with no voice.