**Muhammad Shahbaz** Email:Malik.shahbaz3006@gmail.comPhone: (929) 786 6873 LinkedIn: [linkedin.com/in/muhammad-shahbaz-92360410b](https://www.linkedin.com/in/muhammad-shahbaz-92360410b?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base_contact_details%3BNBixXq2gQB%2BO7JqbZS8Upg%3D%3D)

# SUMMARY:

* 11+ years of professional IT experience with complete knowledge in SDLC in DevOps technologies with expertise in Cloud Automation, IT Security, IT Networking, Platform Support, Cloud Administration and Production Support.
* Extensive experience working with AWS services EC2, ECS, EKS, S3, SQS, Lambda, RDS, AWS Glue, Lakeformation, SNS, Load Balancers (ALB, ELB, NLB), IAM, VPC, Subnets, Cloudwatch and Route53.
* Installed, configured and maintained services such as DNS, DHCP, NFS, Apache Web Server, Samba, SSH, RPM and YUM Repository.
Expertise in creating solutions with typical AWS services like IAM, RAM, EC2, AMI, ENI, ELB, ASG, EBS, EFS, RDS, Aurora, Elastic Cache, Route53, S3, AWS CLI, AWS SDK, S3 Select, S3 Glacier, Athena, Cloud Front, AWS Global Accelerator, Amazon FSx, AWS SQS, AWS SNS, Kinesis, Lambda, Dynamo DB, API Gateway, AWS Cognito, Redshift, Neptune, Elastic Search, AWS Cloud Watch, AWS Cloud Trail, AWS Config, AWS Security, KMS, AWS Secrets Manager, WAF, CIDR, VPC, Egress, Elastic Beanstalk and familiar with blue/green deployment in AWS.
implementing, and managing cloud solutions on the Microsoft Azure platform. Proven track record of delivering scalable, secure, and cost-effective cloud solutions that meet business objectives. Seeking a challenging role to leverage my expertise in Azure and contribute to the success of innovative projects.
* Monitored and maintained the disk space and backup systems, and implemented change controls, capacity planning and growth projections on the systems.
* Working with terraform for various infrastructure provisioning in AWS, made use of terraform code for S3 bucket access management, Security group update, wrote terratests, reviewing and debugging terraform code for any discrepancies.
* Experience in creating Jenkins CI/CD Pipelining - Free style Pipeline, Multi configuration Project also automating Jenkins pipeline with Groovy Script. Implementing certain Build validations and Integrating SonarQube.
* Experience in Configuring, Deploying, Debugging **Kubernetes** POD. Have Configured .yml File for Kubernetes CI/CD Pipeline. Have also configured auto Monitoring in Kubectl commands in Bash Script.
* Strong working experience in a **DevOps** Environment as a DevOps engineer and worked on various technologies/applications like **Ansible, Puppet, Chef, GIT, Bitbucket, Jenkins, Docker and Maven.**
* Experience in Branching, Merging, Tagging and maintaining the version across the environments using SCM tools like **Subversion (SVN), GIT (GitHub, GitLab).**
* Worked on migration projects from onprem to AWS cloud, laying out current state architecture and working on target state architecture.
* Did the configuration and provisioning of infrastructure for hosting third party applications like Pentaho, Sisense, Tableau, AEM, etc.
* Experienced in writing scripts using Python, Ruby, YAML, Groovy and Shell scripts to automate tasks.
* Experienced with Story/Task/Bug tracking tools like Jira, Azure Boards, Ring Central and Bugzilla.
* Experience with CI (Continuous Integration) and CD (Continuous Deployment) methodologies using Jenkins.
* Worked with Docker and created multiple containers, images. Also, have experience on writing the Docker file.
* Creating Linux Virtual Machines using VMware, Virtual Box.
* Ability to build deployment, build scripts and automated solutions using scripting languages such as Shell scripting (Bash) and Python.
Infrastructure as a Service platform in AWS performed duties that includes cloud services such as EC2, S3, IAM, MFA, VPC, Cloud watch, ELB, Stickiness, Auto Scaling, Security groups, routing, NACL’s, kinesis, AMI, Dynamo DB, Mongo DB, Route 53, Cloud Formation, Elastic Beanstalk, Glacier, Lambda.
* Created the deployments, services and ingress flows for the application setup in the Kubernetes cluster.
* Working Experience in Monitoring and Logging tool using Splunk, DataDog and AppDynamics.
* Worked in DR exercise, ami rehydration, baking and hardening of ami, cert update via DigiCert and AWS Cert Manager.
* Experienced in Worked on NoSQL databases - HBase, Cassandra & MONGODB, database performance tuning & data modeling.
* Strong Experience in working with Databases like Oracle, SQL Server 2008 and MySQL and proficiency in writing complex SQL queries.
* Experience in Version Control systems like CVS and Git.
* Experienced in process, validate, parse, and extract data from .xml file
* Knowledge and experience in job work-flow scheduling and monitoring tools like JIRA.
* Hands on experience in Core Java, Servlets, JSP, JDBC, C#, JavaScript.
* Knowledge of Eclipse tool for the development of Java projects.
* TECHNICAL SKILLS:

|  |  |
| --- | --- |
| **Operating Systems** | Linux (Red Hat), Windows, UNIX - Sun Solaris, Ubuntu, CentOS, Debian, Fedora |
| **Version Control Tools** | Subversion, CVS, Git, Bit Bucket, GitHub, Artifactory |
| **Cloud Technologies** | AWS EC2, S3, ELB, ASG, Route 53, Kinesis, Cloud Watch, IAM, Azure web app, Azure F5, Azure Active Directory, Azure APIM, Key Vault, App Insight,  |
| **Scripting/Languages** | Shell, Power Shell, Python, Perl, Ruby, .NET, Go |
| **Infrastructure as code** | Terraform, Cloud formation |
| **Virtualization** | VMware ESX/ESXi, VirtualBox, Hypervisor, Vagrant |
| **Containerization** | Docker, Swarm, Kubernetes, OpenShift |
| **Cloud** | Amazon Web Services, Google Cloud, Microsoft Azure, openstack |
| **Web Technologies** | HTML, Java Script, XML, Servlets, JDBC, JSP |
| **Web/App Servers** | WebLogic, WebSphere, JBoss, Tomcat, Apache, Nginx |
| **Ticketing Tools** | Clear Quest, HPSM, Jira, Remedy |
| **Database** | Oracle, DB2, SQL Server, MySQL, Mongo DB, Cassandra, Cosmos DB |

# EXPERIENCE:

## **Bank Of America, New York, NY** Jan 2022 – Till date

**Employer – Apex**

**Role: Senior DevOps Engineer**

**Client Description:** BOfA provides a comprehensive suite of technology and services for brands and content owners. Using our platform and services, our partners are able to get to market and reach consumers quickly. BOfA digital platform allows consumers to stream live and on-demand content and offers extensive marketing, data and analytics tools that empower businesses to generate revenue and enhance interaction with their audience.

**Project Description**: BOfA offers a digital platform for third parties (our “Content Providers”) to stream live and on-demand content to their end users. The Site provides a description of our software-as-a-service products and solutions, which include marketing, data and analytics tools.

**Project Technologies**:

* JAVA/J2EE
* JavaScript (Node.js)
* AWS
Azure
* Microservices
* Angular 4
* Java Server Pages
* Log4j Framework
* Oracle database

**Responsibilities:**

* Followed Agile Methodology to provide/take feedback on the features, suggest/implement optimal solutions.

 Implemented the Model View Control (MVC) structure Developing Code using Ansible, Python,Terraform
 and Splunk tools to deploy applications in AWS.
 Involved heavily in setting up the CI/CD pipeline using Jenkins, Maven, Nexus, Ansible, Bitbucket, Sonarqube,
 Terraform and AWS and created notifications and alarms for EC2 instances using CloudWatch

 Provide guidance on Azure cost management strategies, including resource tagging, budgeting, and monitoring.

 Conduct Azure security assessments, vulnerability scanning, and threat modeling to enhance cloud security.

 Troubleshoot and resolve complex Azure infrastructure and application issues.

* Used Spring Batch for a batch processing application.
* Developing the Microservices using Spring Boot that create, update, delete and get the assignment information from backend.
* Consumed REST based Microservices with Rest template based on RESTful APIs.
* used spring cloud configuration from spring cloud and spring profiles for configuration management of micro services
* Implemented Angular 4 services to connect the web application to back- end API's.
Developing multiple Apps for Azure and Hands-on experience in azure Cosmos DB database technologies.
* Built Angular 4 components using Typescript and UI services to consume rest services using Component based architecture provided by Angular 4.
* URL routing handled by UI state router, allowing us to divide the application into logical modules (templates and controllers), each of which would be instantiated when its route was invoked by $Route Provider in Angular 4 to route the data from one service to another server.
* Involved in implementing the complete Application in the in-build MVC Architecture with angular.
* Implemented various JavaScript effects on the pages.
* Developed Real time tracking of class scheduled using Node Js.
* Used AWS SDK to connect with Amazon SQS for bulk email processing.
* Implemented AWS IAM for managing the credentials of applications that runs on EC2 instances.
* Implemented AWS solutions using E2C, S3, RDS, EBS, Elastic Load Balancer, Auto-scaling groups.
* Worked on building data center with AWS and Installed SVN, GIT, Jenkins images on AWS.
* Involved in designing, built, and deployed a multiple application utilizing almost all of the AWS stack
* Developed Interactive web pages using Angular.JS, React.JS, HTML5, CSS3 and JavaScript.
* Used Apache tomcat and WebLogic as an application server to deploy various components of application.
* Automate the cloud deployments using python and AWS Cloud Formation Templates.
* Administered and deployed applications into WebSphere Application Server.
* Providing JSON responses for both android and iPhone applications using Struts Actions classes.
* Helping the mobile team to debug the issue on both the IOS and android applications.
* Strong experience with SOAP and REST webservice consuming (JAX-RS, JAX-WS, CXF, Axis, JAXB).
* Tested the Web services using SOAPUI and by writing Web service client in Java for transmitting the offender's information in XML data using the WSDL provided.
* Involved in application migration from older server environments to newer server environments providing high availability and accessibility.
* Upgrading JDK version from 1.7 to 1.8, also WebLogic servers from 12.1.1 to 12.1.3 and making sure all the applications are running after performing upgrade task.
* Developing Test Cases and performed Unit testing using Junit for the Action classes.
* Used test automation frameworks like Selenium.
* Used Log4J logging framework to write Log messages with various levels for logging across the application.
* Used Apache JMeter as a load-testing tool for analyzing and measuring the performance of a variety of services.
* Maintained version control of the Java files with SVN and GIT.

**Environment:** Java8, Agile (SCRUM), JAX-WS and JAX-RS, SOAP, REST, Eclipse, Spring, Oracle 10g, HTML5, CSS3, Node JS, Angular 2, JavaScript, Log4j, jUnit, ANT, Jenkins, JIRA, Selenium, Tomcat, WebLogic 12.1.3, SVN

Nissan Motors, Franklin, TN Sep 2017- Jan 2022
Role : Could Engineer

Responsibilities:
 Lead the design and implementation of Azure-based cloud solutions for enterprise clients, ensuring
 high availability, scalability, and security.

 Collaborate with cross-functional teams to define cloud architecture, requirements, and best practices.

 Configure and Launch Azure Web Apps, Web Jobs, Create Topics/Queues in Service Bus kubernetes

* etc., and also automate them via bash scripts.
* Create gold build AMIs. Apply changes to remediate vulnerabilities identified by scans (either within the Windows build or in Active Directory GPOs). Test the developed AMIs to ensure they are functional.
* Integrate into the AWS build process. Develop documented procedures on how to spin up instances using the AMI builds (procedures will be used by DevOps teams to spin-up their EC2 instances).
* Publish gold image AMIs into AWS accounts.
* Keep Windows AMIs updated as needed to adhere to security standards.
* Execute same process for GCP (Build, integrate, publish and support at GCP).
* Provide troubleshooting assistance to DevOps teams as they build Windows based EC2 instances.
* Implement patching for Windows EC2 instances utilizing Systems Manager and Cloud Formation.
* Assist in the design, engineering and migration of Windows based shared services from on premise to AWS and GCP. Examples may include: VDIs, Citrix, RightFax, Shared Drives, Vcenter (among others).
* Develop, implement and optimize operational aspects of AWS and GCP as it relates to shared services Windows components.
* Provide L3/L4 support for current on-premise Windows servers/applications.

 Developing Code using Ansible, Python, Terraform and Splunk tools to deploy applications in AWS.
 Manage and optimize Azure resources, including virtual machines, storage accounts, and
 networking components to ensure efficient resource utilization.

 Implement Azure DevOps pipelines for automated deployment, continuous integration, and continuous
 delivery (CI/CD) of applications.

 Design and implement Azure Active Directory (Azure AD) solutions for identity and access management.

* Managed AWS infrastructure as code using Terraform and written Terraform templates for configuring EC2 instances, security groups, subnets and Automated the infrastructure using Ansible and Terraform
 **Environment:** AWS, Git, Bitbucket, Maven, Jenkins, JFrog Artifactory, Chef, Ansible, Terraform, Web Sphere, ELK, JBoss, Postgres, Docker, Kubernetes, Windows, Unix, Linux.

 **Barclays, New York, NY** *Mar 2016 – Aug 2017*

**Employer – ITI Data**

**DevOps Tech Lead**

**Project Description**: Ordering management systems will provide the customer a new set of products and associated features. Major component of the Universal Platform is the management functions required to support customer care interaction. Within the context of the Universal Platform, Enhanced Universal Account Management has been defined to include all customer transactions.

**Project Technologies**:

* JAVA/J2EE
* Restful web services
* Hibernate Framework
* Servlets
* Java Server Pages
* Log4j Framework
* Oracle database

 Created, configured and automated Amazon Web Services as well as involved in deploying the content to cloud platform using the services such as EC2, S3, EBS, VPC, Route 53, Auto Scaling, Elastic Beanstalk,Code Pipeline,Migration hub, ELB, SNS, SNI, Ops Works, Redshift and Cloud watch etc.,

• Installed and configured AWS Cloud services like EC2, S3, RDS, ELB, and EBS

• Involved heavily in setting up the CI/CD pipeline using Jenkins, Maven, Nexus, Ansible, Bitbucket, Sonarqube, Terraform and AWS and created notifications and alarms for EC2 instances using CloudWatch

* Successfully accomplished Design, Development and Support phases of Software Life Cycle (SDLC).
* Used AGILE methodology and participated in SCRUM meetings.
* Involved in sprint planning, code review, and daily standup meetings to discuss the progress of the application.
* Designed and developed the User Interface (UI) components using Spring and maintained the session with Session Bean. Implemented data-binding using AngularJS for front-end development of a current web application.
* Extensive experience in AngularJS implementing MVC and concepts of two-way data binding.
* Using AngularJS factory and services for dependency injection to share data and common code functionality between multiple controllers.
* Developed reusable components using Custom Directives in AngularJS
* Designed user interactive (UI) web pages using web technologies like HTML5, CSS3, Bootstrap, React.js.
* Experience in React Life Cycle methods for the logical implementation of the client side.
* Experience in synchronous data-flow in the application using Redux.
* Used Bootstrap for effective web design.
* Used Redux-Thunk as a middleware to handle asynchronous actions in the application.
* Experience in Routing framework for SPA redirection by using React-Router.
* Developed front end validations using JSP. Application will display error at a time and focus on the wrong field, to help ensure that the user correctly fills in all the details.
* Developed Controller for request, response paradigm by Spring Framework Controller using Spring-MVC.
* Developed a tool to retrieve and send data to third party service provider by implementing RESTful web services toclient applications.
* Used HTTP methods (GET/ POST/ PUT/ DELETE) to manipulate the resource or collection of resources.
* Implemented security for application by declaring springs security filter chain and delegating filter proxy in web.xml.
* Using authorization and authentication in security config file for login forms
* Implemented JAXB in XML binding.
* Applied JSON as response type in REST services for customer user modules. Interacted with database using Hibernate Persistence Strategy.
* Developed Hibernate mapping files using different mapping strategies such as table per class hierarchy.
* Integrated Hibernate with Spring by coding a Spring Configuration file.
* Worked with Oracle database to maintain the tables for customer module.
* Configured JMS in the Apache Tomcat application server to send messages on the queue.
* Configured various interceptors for transaction management, security, Audit logging (database) and logging using Spring AOP.
* Performed unit testing using JUnit.
* Provide support to the Clients in all phase of testing, project release and deployment activities and documented the flow and functionality of the code for further reference.
* Used Maven as build tool in this application.
* Used Eclipse as the development environment.

**Environment:** Java/J2EE, JSP, Java Spring Core/DAO, JSTL, EJB, JMS, XML, JDBC, IBM Web Sphere Application Server 7.0, Oracle, HTML, CSS, JavaScript, Eclipse, redux, Log4j, MCV, Tomcat, Hibernate.

## **Value America Pittsburgh, PA** Oct 2014 – Feb 2016

**Employer - Adiova**

**Role: Infrastructure Engineer**

**Project Description**: Value America engages in the provision of payroll, human resource, insurance, and benefits outsourcing solutions for small and medium sized businesses. It covers the payroll processing, payroll tax administration services, employee payment services, regulatory compliance services, Paychex HR Solutions, retirement services administration, insurance services, and eservices and other human resource services and products.

**Responsibilities:**

* Involved in various phases of Software Development Life Cycle (SDLC) of the application like requirements gathering, Design, Analysis, Code development and Testing.Developed Use case diagrams, Class diagrams, and Sequence diagrams using UML.
* Designed and developed the UI using JSP, HTML, CSS and JavaScript, React-JS
* Designed the web responsive pages using the Bootstrap framework to give a rich look to the user interface.
* Created detail design documents which have the UML Design diagrams, table information, object model which are required for the development.
* Used Spring Core module for Inversion of control/dependency injection.
* Created Spring MVC components like Dispatch servlets, hibernate configure Requestmapping annotation controllers, view resolver components and implemented transaction management using Spring declarative transaction management with Spring AOP concepts.
* Extensively used Core Java such as Exceptions and Collections.
* Designed and developed stored procedures, triggers, views for effectively storing and retrieving related data.
* Implemented Persistence layer using Hibernate to interact with the database.
* Worked on Hibernate object/relational mapping according to database schema.
* Strong understanding of Microservices patterns.
* Prepared the technical design and developed the system MVC architecture using Spring.
* Used Spring Framework for Dependency Injection and integrated with the Hibernate framework for interacting with the database.
* Used several APIs of Spring Framework like Spring Core and Spring MVC.
* Involved in creating web services using RESTful web services using Jersey framework. Wrote build & deployment scripts using Ant, Maven on UNIX environment and worked with QA Director.
* Unit tested each component using Junit.
* Monitored, reviewed, debugged and deployed the application.
* Used Log4j for logging errors, messages and performance logs.
* Participated in code review and code walkthrough and QA processesor JAX-RS implementation.
* Implemented version controlling using GIT and used Jenkins for continuous integration.
* Effectively engaged with clients and all stakeholders through weekly meetings.

**Environment:**Java, J2EE, Hibernate, Spring MVC, MySQL, Log4j, Apache Tomcat, RESTful Web services, Agile, GIT, Maven, Jenkins, Eclipse, Junit, HTML 5, CSS 3, JSP, Javascript, Reactjs, Bootstrap selenium and Microservices.

Infosys, India **May 2012 – Sep 2014**

**System Administrator**

**Description:** Infosys has a track record of providing software development and quality assurance services. We have built intellectual property and competence in emerging technologies and various domain areas. Our solutions include a line of outsourced product development and offshore software development services for small, medium corporations and emerging technology businesses.

**Responsibilities:**

* Involved in the complete development, testing and maintenance of the application.
* Designed UI Screens using Servlets, JavaScript, CSS, Ajax, XHTML and HTML.
* Designed use case diagrams, class diagrams and sequence diagrams using Microsoft Visio tool.
	+ Created Session Beans to handle the business logic associated with the Inspection.
* Developed and deployed various Entity EJBs and session EJBs.
* Involved in the ObjectOriented Requirement Analysis Phase of the project in order to gather business logic requirement.
* Coding of JSP Pages for External Application (EXA) using Custom Tag Library which create standard tag used in the application.
* Involved in designing application based on MVC Architecture.
* Developed Session beans to implement the core Business logic.
* Involved in coding the helper classes for better data exchange between different layers.
* Provided production support by fixing bugs.
* Performed unit testing, system testing and user acceptance test.

**Environment**: Java, Servlets, JSP,CSS3, XML, EJB, JavaScript AJAX, DB2, Web Services, Web Sphere Application Server, Log4j, CVS, JUnit.

# Education

* Bachelor of Technology in Computer Science from JNTUK, India – May 27 2012
* Bachelor of in Computer Science

AZURE ADMINISTRATOR
 ASSOCIATE EXAM AZ-104 +AZ-900
I had passed successful the new Azure Administrator Exam Az-104 and AZ 900 and get the renewal of the Microsoft Certified: Azure Administrator Associate

virtual university
I had passed the virtual academic certificate in web developing and worked in flash front page and java programing and C++ language.