**SIRI K**

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**Professional Summary:**

* Over 7 years of IT Professional Experience as Cloud/ DevOps Engineer comprising of Linux and System Administration with major focus on **AWS**, **Azure**, **Open Stack**, **Continuous Integration**, **Continuous Deployment**, Configuration Management, Build/release Management and Virtualization technologies which also includes Troubleshooting and Performance issues.
* Strong experience in DevOps activities such as Continuous Integration, Continuous Deployment and on the required tools. Experience with cloud and virtualization-based technologies like **Docker**, **VMware**.
* Hands on Experienced with the **Linux/Unix** Operating system. Involved in designing and deploying applications utilizing almost all the **AWS** stack (**Including EC2**, **Route53**, **S3**, **ELB**, **EBS**, **VPC**, **RDS**, **DynamoDB**, **SNS**, **SQS**, **IAM**, **KMS**, **Lambda**, **Kinesis**) and focusing on high-availability, fault tolerance and auto-scaling in AWS Cloud Formation, deployment services (Ops Works and Cloud Formation) and security practices (**IAM**, **CloudWatch**, **CloudTrail**).
* Designed and Implemented a Micro services container **CI** and **CD** solution within AWS leveraging Jenkins, **Docker**, **Ansible** and **Kubernetes**. Expertise in writing **Ansible Playbooks**, **YAML** for Maintaining Roles, Inventory Files and Groups Variables.
* Extensively experienced in Version Control tools namely Subversion (**SVN**), Perforce and **GIT** on multiple environments to track changes made by different departments in source code and held extensive migration of Centralized to Distributed **VCS (GIT)**.
* Expertise in Branching, Merging Strategies, migrating projects from Subversion (**SVN**) repositories to **GitHub** Enterprise repositories through **Team Foundation server** (**TFS**).
* Built Jenkins jobs to create **AWS** infrastructure from GitHub repos containing **terraform** code. Hands on experience on terraform as a tool for building, changing and versioning infrastructure safely and efficiently. Configuration of new jobs and scheduling new jobs in **Jenkins** and **Bamboo**.
* Created four staged CI/CD pipelines with **AWS** Code Pipeline plugin for **Jenkins**, **GitHub repository**, **Jenkins** build server **EC2** instance using **IAM** instance role, proxy and firewall settings to allow inbound connections on server and AWS Code Deploy.
* Experience in managing the repository manager like **Nexus**, **Jfrog**, **Artifactory** for the **Maven** builds. Integrated Maven with **Jenkins** by which the Surefire test reports and Javadoc produced by **Maven** are captured and to build parallel modules for larger **Maven** and **Gradle** projects.
* Hands on experience in using Build Automation tools like **Maven** & **ANT** with continuous integration tools like **Jenkins**. Automate provisioning and repetitive tasks using **Terraform** and **Python**, **Docker** container, Service Orchestration. Experience with creating custom users & groups on an IAM console.
* Experienced with **Nagios**, **CloudWatch** as IT Infrastructure Monitoring tool and knowledge on **Splunk**, Proficient in deploying and configuring **Elastic** **search**, **Log** **Stash**, **Kibana** (**ELK**) and AWS Kinesis for log analytics.
* Excellent understanding of reference models like OSI Model protocol suite (IPv4, IPv6, all supported IEEE standard protocols), **TCP**/**IP** protocol suite (IP, ARP, TCP, UDP, SMTP, FTP, SSH).
* Pragmatic Experience in designing and configuring **Azure** **Virtual** **Networks** (VNets), **subnets**, Azure network settings, **DHCP** address blocks, **DNS** settings, security policies and routing, Azure Virtual Machines, App Service, **Azure** **SQL** **DB**.
* Used **Docker** to containerize custom web applications and deployed on Digital Ocean with Ubuntu instances through **SWARM** Cluster and automated application deployment in cloud using **Docker** **HUB**, **Docker** **Swarm**, and **Vagrant**.
* Experience in creating **Docker** containers leveraging existing **Linux** **Containers** and **AMI's** in addition to creating Docker containers from scratch and setting up **ELK** with Docker and Docker-Compose.
* Designed, Architected and implemented the Platform as a service built for Multi-tenant platform within the Hybrid cloud infrastructure within **AWS** and **GCP**, Configured the **AWS** **DNS** to route the traffic between **AWS** and **GCP**.
* Strong knowledge on writing **Python**, **Shell**, **Ruby** and **Perl** scripts to automate the deployments, experience in writing Jenkins Pipeline Groovy Scripts for Continuous Integration and build workflows and Used **Jenkins** uploading Artifacts into Nexus Repository.
* Production experience in large environments using configuration management tools like **Chef** and **Puppet** supporting Chef Environment with many servers and involved in developing manifests. Developed Chef Cookbooks to manage systems configuration.
* Expertise in implementing a production ready, highly available, fault tolerant **Kubernetes** infrastructure and Worked on Scheduling, deploying and managing container replicas on a node cluster using Kubernetes.
* Set up a continuous integration and Build Automation system using **Maven**, Continuum and Archive Web logic server Administration, **JMS** **Queue**, **JMS** **Topic**, **Data** **Source**, JDBC JVM Heap Configuration and Server/Web Container Thread pool settings.
* Experience on monitoring tools such as **Splunk** and **Nagios** used Cloud Watch to monitor AWS infrastructure and used to analyze and monitor the data.
* Experience on Cloud innovations including Infrastructure as a Service, Platform as a Service, and Software as a Service supplier (IaaS, PaaS, and SaaS).
* Experience in using bug-tracking systems like **JIRA**, **Remedy**, **Bugzilla**, **ClearQuest**, Find Bugs and HP Quality Center.

**Technical Skills:**

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| --- | --- |
| Cloud Services | Amazon Web Services (AWS), Microsoft Azure, Open Stack. |
| Version Control Tools | GIT, SVN, Clear Case, Atlassian Bitbucket, GitLab. |
| Container/Automation Tools | Docker, Terraform, Kubernetes, Puppet, Chef, Ansible. |
| Build Tools | Apache ANT, Maven, Gradle, Microsoft Build. |
| Artifact Repository Management Tools | Nexus, Artifactory. |
| Continuous Integration Tools | Jenkins, Hudson, Build Forge, Atlassian Bamboo, Team City |
| Operating Systems | Linux (9,10,11), RHEL (5.x, 6.x, 7.x), CentOS (5.x, 6.x, 7.x), Ubuntu (12.x ,14.x), Windows (2008, 2012), Debian. |
| Application Servers/Middleware | Apache Tomcat, WebLogic, WebSphere, JBOSS. Databases |
| Databases | SQL Server, Mongo DB, RDBMS Oracle, Oracle 9i, 10g, 11g. |
| Monitoring Tools | NAGIOS, Splunk, Cloud Watch, ELK Stack. |
| Bug Tracking Tools | Atlassian JIRA, REMEDY, Cucumber, Fisheye. |
| Security Tools | Veracode, Qualys. |

**Professional Experience:**

**Sr. Cloud/DevOps Engineer December 2018 – Present**

**Client: MasterCard, New York, NY.**

**Responsibilities:**

* Building automated jobs for continuous integration and delivery using technologies **Java** and **NodeJS** using **Jenkins**, **Bamboo**, **Salt**, **Ansible**, **Splunk**, **Spring** **boot**, **PCF** (Pivotal Cloud Foundry)
* Working with **DevOps** team on areas related to **Ansible** for Cloud Automation.
* Developed build and deploy scripts using **Groovy**, **Python** and **UNIX** for various products to be hosted on Application Servers
* **Troubleshooting** the issues arose during Build and Deployment.
* Work on creating a CI/CD pipeline for deploying Apps on Pivotal Cloud Foundry
* Implemented setting up **PCF** Org, spaces and quotas.
* Prepare change requests and taking care of **Master** **Pass** application’s server configurations and deployments
* Worked on **Blue**-**Green** / **Canary** deployments
* Experience with **Selenium**-Grid using **Kubernetes** for QA team.
* Organizing and coordinating Product Releases, work closely with product development, **QA**, Support across global locations to ensure successful releases
* Expand use of containerization including **Docker** to speed and ease building and testing
* Engaged in and improved the whole lifecycle of services—from design, through deployment, operation and refinement.
* Use **Jenkins** to orchestrate application release & integration with tools **Sonar**, **Chef**, **Maven**, **Artifactory**, etc. to build out the CI/CD pipeline.
* Used **Ansible** to deploy/create services/auto scale **PCF** applications using **Jenkins** pipeline.
* Design, implement and enhance deployment automation based on **Ansible**.
* Support deployments of code into multiple lower environments.
* Design and implement a **Git** based code management strategy that will support multiple environment deployments in parallel.
* Implemented a CI/CD pipeline with **Docker**, **Jenkins** and **GitHub** by virtualizing the servers using Docker for the Dev and Test environments by achieving needs through configuring automation using Containerization. Wrote **Shell** scripts for doing Deployment and take the Git repository backups.
* Use **Terraform** as an infrastructure as code(**IAC**) to spin up resources in cloud platform(**PCF**, **AWS**) and used ansible as an configuration management tool to deploy applications in infrastructure built by terraform.
* Manage cloud services like **EC2**, **S3**, **VPC’S**, **EBS** volumes, **IAM** services, key management services using terraform.
* Deployment to **AWS** with **Ansible** and **Terraform** towards AWS and using Terraform for building, updating, and versioning infrastructure safely and efficiently, as well as creating custom in-house solutions with Ansible playbooks.

**Environment:**

Aws EC2, GIT, Maven, Ant, Chef, Jenkins, Docker, Python, PCF, VPC, Auto-Scaling, Agile, Splunk, ELB, Shell Scripts, Ansible, JFrog, Artifactory, JIRA, Unix/Linux environment, Kubernetes, Terraform, Groovy, IAM.

**Sr. Cloud/DevOps Engineer April 2018 – December 2018**

**Client: HealthEdge, Burlington, MA.**

**Responsibilities:**

* Experience in working with **AWS** CLI to control various **AWS** services such as **EC2**, **ECS**, **Elastic** **Beanstalk**, **S3**, **Glacier**, **SNS**, **SQS**, **IAM**, **RDS**, **DynamoDB**, **Elastic** **Cache**, AWS Ops Works, Route 53, **VPC**, **CloudFront**, Direct Connect, Cloud Trail, Cloud Watch, **EMR** and **Amazon** **RedShift** through **SHELL**/**BASH** scripting.
* Installing and configuring Subversion, **Git** and **Jenkins** and deployment servers. Administration of Git includes creating branches, tagging, access permissions and setting up hooks.
* Implemented a **CI**/**CD** pipeline with **Docker**, **Jenkins** and **GitHub** by virtualizing the servers using **Docker** for the Dev and Test environments by achieving needs through configuring automation using Containerization. Wrote Shell scripts for doing Deployment and take the **Git** repository backups.
* Extensively worked on Jenkins for Continuous Integration and end to end automation for all build and deployments. Developed build and deployment scripts using **MAVEN** as build tools in **Jenkins** to move from one environment to other environments.
* Experience in **AWS** including deploying new server instances through automation with **Chef** and **Jenkins**. Created various templates and managed various models to set up various Amazon Web Resources using **AWS** CloudFormation.
* Researched and created preliminary PowerShell code for moving **Azure** Classic workloads to Azure Resource Manager version. Migrated **SQL** Server 2008 database to **Windows** **Azure** **SQL** **Database**.
* Deep demonstrable experience of having worked on an Azure platform with working applications with production usage in an Enterprise edition large-scale deployment; Microsoft Azure PaaS and IaaS services.
* Deploying and managing many servers utilizing both traditional and cloud-oriented providers (**Amazon** **EC2**) with the **Chef** Platform configuration system from first light, through initial technology development, and into production and maintenance.
* Written multiple cookbooks in **Chef**. Implemented environments, roles, data bags in **Chef** for better environment management. Setup Chef Server, workstation, client and wrote scripts to deploy applications.
* Have a good experience on **Ruby** with **Chef** Automation tools. Managed multiple cookbooks in Chef and Implemented environments, roles, and templates in Chef for better environment management.
* Automated the cloud deployments using **chef**, **python** (boto & fabric) and **AWS** Cloud Formation Templates. Established Continuous Integration (**CI**) practices and standards with **JIRA**, Jenkins and Continuous Delivery (**CD**) through **Chef**.
* Monitoring using **Jenkins**, **Ant**, **Maven**, **Artifactory**, **Chef**, Custom scripting. Collaborated in the automation of **AWS** infrastructure via **Terraform**, **Ansible**, and **Jenkins** - software and services configuration via chef cookbooks.
* Configured **Ansible** control machine and wrote Ansible playbooks with Ansible roles. Used file module in Ansible playbook to copy and remove files on **EC2** instances, wrote playbooks using **YAML** scripting.
* Automatically installed packages from the repository, changing the configuration of that are remotely accessed machines. This process is done by creating the Ansible Playbooks.
* Designing Ansible Playbooks for zero-downtime installation, upgrade, downgrade, and uninstall processes. (**MongoDB**, **Redis**, **MySQL** and **PostgreSQL**). Writing Ansible Playbooks with **Python** **SSH** as the Wrapper to Manage Configurations of **AWS** Nodes and Test Playbooks on AWS instances using Python
* Worked on **Ansible** modules to deploy Docker services on the Docker cluster for the entire microservices stack. Worked on **Docker** hub, creating Docker images and handling multiple images primarily for middleware installations and domain configurations.
* Implemented **Docker** based Continues Integration and Deployment framework. Managed clusters using **Kubernetes** and worked on creating many pods, replication controllers, services, deployments, labels.
* Proficient with container systems like **Docker** and container orchestration like **EC2** Container Service, **Kubernetes**, worked with **Terraform**. Developed Networking policies for Docker Containers. Worked on Open source development tools like Docker Containers, **Mesos**, and **Kubernetes**, and worked on **GitHub**.
* Designing and implementing fully automated server build, management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including Jenkins.
* Used Junit testing framework for **Java** & **Ruby**, for test driven development. Designed and implemented Nexus binary repository and process. Configured pom.xml files to publish the artifacts into Nexus repository as part of the Continuous Integration (**CI**) process.
* Good analytical, problem-solving, communication skills and have the ability to work either independently with a little supervision or as a member of a team.
* Developed **Splunk** queries and Splunk dashboards target for understanding applications performance and capacity analysis.
* Evaluated existing **JIRA** instance and resolved performance issues, Expert Knowledge in Bash **Shell** Scripting. Worked on day to day administration tasks and resolved tickets using **JIRA**
* Performed automation engineer tasks and implemented the **ELK stack** (Elasticsearch, Log stash, Kibana) for AWS EC2 hosts, deployed and configured **ELK** for log analytics, full text search, application monitoring in integration with **AWS Lambda** and **CloudWatch**.

**Environment:**

Aws EC2, GIT, Maven, Ant, Chef, Jenkins, Docker, Python, GCP, VPC, Auto-Scaling, Agile, Splunk Nginx, ELB, ELK, Shell Scripts, Ansible, JFrog, JIRA, Unix/Linux environment, Kubernetes, Terraform, Ruby, SQL, IAM, Subversion.

**Cloud/DevOps Engineer August 2017 – April 2018**

**Client: IMS Health, Plymouth Meeting, PA**

**Responsibilities:**

* Design of Cloud architectures for customers looking to migrate or develop new **PaaS**, **IaaS**, or hybrid solutions utilizing **Microsoft** **Azure** and have working knowledge on **Azure** **SQL**, **Azure** **storage** and **Azure** **Services**.
* Designed **GIT** branching strategies, merging per the needs of release frequency by implementing **GIT** flow workflow on Bit bucket. Used **GIT** for commit and push and pull operations in the project.
* Integrated **Maven** with **Jenkins** for the builds as the Continuous Integration process & used **Maven** for building **Java**/**J2EE** Applications. Integrated SonarQube with **Jenkins** for continuous inspection of code quality and analysis with SonarQube scanner for **Maven**.
* Installed **Jenkins** on a Windows machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Installed, configured and administered Continuous Integration tools such as **Chef** for automated builds. Configured report and exception handlers in **Chef**, Used Food critic and RuboCop to avoid common cookbook errors, Used chef spec for Unit testing of cookbooks
* Built and managed a large deployment of **RedHat** **Linux** instances systems with **Chef** Automation and Implemented automated local user provisioning VMs created in **Open** **stack** and **Azure** **cloud** through **Chef** Recipes.
* Worked on using Chef Attributes, Chef Templates, Chef Recipes, and Chef Files for managing the configurations across various nodes using **Ruby**.
* Using Chef deployed and configured Elastic search, Log stash and Kibana (**ELK**) for log analytics, full text search, application monitoring in integration with Azure cloud. Have good knowledge of utilizing cloud technology **Microsoft Azure** and **NoSQL** database like Mongo DB database.
* Experience working on configuration management in **Linux** using **Puppet** there by developing **Puppet** Modules for provisioning applications and scripts. Managed Ubuntu Linux and Windows virtual servers on **AWS** **EC2** using **Puppet**.
* Developed automation scripting in **Python** (core) using **Puppet** to deploy and manage Java applications across Windows servers and uses the **Nagios** for the windows performance monitoring.
* Deployed and configured Puppet Server, **Puppet** **DB** for configuration management to existing **Linux** (**RHEL**) infrastructure.
* Configuring and updating **JSON** files to create new stacks for Deployment using Docker Marathon. Used CI/CD tools **Jenkins**, **Git**/**Gitlab**, **Jira** and **Docker** registry/daemon for configuration management and automation using Ansible.
* Proficient with container systems like **Docker** and container orchestration like **EC2** Container Service, **Kubernetes**, worked with **Terraform**.
* Coordinated with teams lead and other developers to implement features according to specifications and helped in JAVA code to enhance the performance along with fixing issues and applications support.
* Managed **Kubernetes** charts using **Helm**. Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Deployed java applications to application servers **Apache** **Web** **Server** and **JFrog** application server in **AGILE** continuous integration environment and automated the whole process. Skilled in Test Driven Development and Agile Development (TDD).
* Created **Puppet** Manifests to provision Apache Web servers, **Tomcat** servers, **Nginx**, Apache Spark and other applications.

**Environment:**

Java, Maven, Nexus, puppet, Jenkins, Docker, Nginx, Nagios, GIT, Agile, AWS, Splunk, Shell Scripts, Unix/ Linux environment, spark.

**DevOps Engineer August 2015 – August 2017**

**Client: MPS Limited, India**

**Responsibilities:**

* Responsible for installing, configuring and managing physical and **VMW** are virtual servers in **Red** **Hat** Enterprise **Linux** 7 (RHEL), **CentOS** and Ubuntu Operating Systems and supported various application stack.
* Performed code line **GIT** pushes (releases) to production and customer servers and Developed and improved GIT push scripts. Creating branches and tags on Git repository and provided branches access permission to dev team.
* Implemented docker-maven-plugin in maven pom to build docker images for all microservices and later used **Docker** file to build the docker images from the java jar files.
* Handling **Jenkins** related activities such as creating new users with the right privileges, configuring the new builds, add/delete Jenkins slaves and resolving any Jenkins related issue.
* Managed **AWS** **EC2** instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for **GIT** and **Chef**.
* Written wrapper scripts to automate deployment of cookbooks on nodes and running the chef client on them in a Chef-Solo environment
* Used Chef to automate the deployment workflow of **JAVA** applications on WebSphere and Oracle Web logic servers.
* Involved in Architect, build and maintain Highly Available secure multi-zone **AWS** cloud infrastructure utilizing **Chef** and **Ansible** with AWS Cloud Formation and Jenkins for continuous integration.
* Used **Ansible** playbooks to setup Continuous Delivery pipeline. This primarily consists of a Jenkins to run packages and various supporting software components such as **Maven**.
* Building **Docker** images with Ansible provisioning. Responsible for Docker and services discovery, including management and customization of images, and adding external content by using Docker.
* Wrote an **Ansible** playbooks which is the entry point for Ansible provisioning, where the automation is defined through tasks using **YAML** format. Run Ansible Scripts to provision Dev servers.
* Managed **Maven** Repository using **Nexus** **tool** and used same to share the snapshots and releases of internal projects.
* Expertise in developing **WLST** scripts and **Shell** scripts to administer WebLogic servers including deployment, configuration and monitoring.
* Implemented rapid-provisioning and life-cycle management for **Ubuntu** **Linux** using Amazon EC2, Chef, and custom Ruby/Bash scripts.
* Deployment to **AWS** with **Chef**, **Ansible** and **Terraform** towards AWS and using Terraform for building, updating, and versioning infrastructure safely and efficiently, as well as creating custom in-house solutions with Chef configurations.
* Building **Linux** servers using Kickstart, Installed and updated packages using **RPM**, **YUM** and performed Security Patching.
* Monitoring test performance using **Splunk** and setting up Splunk dashboards and adding data to Splunk by adding log files.
* Responsible to perform the Security Scans, defect tracking, defect reporting and defect reproducing using SonarQube, Bugzilla and JMeter.

**Environment:**

Git, Maven, Jenkins, Splunk, SonarQube, Bugzilla, JMeter, Linux, chef, Ansible, Terraform, ubuntu, Shell scripting, Yum, Aws, Bash, Ruby, Docker, Java, CentOS.

**Linux Administrator April 2014– August 2015**

**Client: Amba Infotech, India**

**Responsibilities:**

* Worked as a system engineer focusing more on Linux servers, Responsible for the planning, designing, installation and configuration of various **Linux** servers like **Red** **hat** and **SUSE Linux**.
* Installation, Configuration & Upgrade of **Linux** operating systems running **Oracle** **Database**.
* Responsible for creating and managing user accounts, security, rights, disk space and process monitoring in **CentOS** and **Red** **hat** **Linux**.
* Creating, cloning Linux Virtual Machines, templates using **VMware** Virtual Client and migrating servers across **ESX** hosts.
* Provided the support of building the server, patching, user administration tasks, deployment, software installation, performance tuning and troubleshooting and **KVM**.
* Disk and File system management through Solstice Disk Suite on Solaris and other logical volume manager for another flavor of **UNIX.**
* Administrative tasks such as System Startup/shutdown, Backup strategy, Printing, Documentation, User Management, Security, Network management, dumb terminals and devices carried out.
* Troubleshooting Backup and Restore Problems Creation of **LVM**s on **SAN** using Linux utilities.
* Performed OS upgrades and Patch loading as and when required.
* Performed package management using **RPM**, YUM, Apt-get for maintaining stability and security of the servers.
* Backed up and restoring files across the network.
* Worked on installation, maintenance and modifications of monitoring software - Hobbit for server
monitoring and I3 for database monitoring and responding to end-user requests for assistance and modifications.
* Wrote Technical documentation for various projects and worked with Technical writer to finalize the documents.
* Monitored overall system performance, performed user management, system updates and disk & storage management.
* Performing **Linux** **System** **Administration** routines swap partition and file system changes, system booting and recovery.
* Handling **LVM** related tasks, Creating, resizing LVM, VERITAS Volume manager and managing Cluster environment using **VERITAS** Cluster suite

**Environment:**

Linux, Unix, LVM, Veritas, RPM, YUM, SAN, Oracle WebLogic, LINUX (RHEL 4/5), VERITAS NetBackup, Samba, NFS, NIS, Shell, RedHat, SUSE.

**System’s Engineer June 2013 – April 2014**

**Client: AXIS Bank, India**

**Responsibilities:**

* Developing Business logic using **C#.Net, scraping all HTML control values through C#,** involved in the development of GUI using **ASP.NET, HTML, AJAX, and CSS with Oracle / SQL Server 2008 Data Base** for Admin Module.
* Involved in **Bug** fixing raised in different Environment. Writing the test cases and involved in unit testing.
* Interacting with the Client for the requirement gathering and designing Issues & Handling change requests for different process and providing optimal approach to meet the requirements
* Implemented solution using **JSP** as frontend **ORACLE** **10G** as backend and **JDBC** to demonstrate the results, Design and development of server-side code for client proprietary tool.
* According to the requirements provided by the client at hierarchy level have created pages and maintained their access levels.
* understanding new requirements, building an optimized solution.
* hosting of a web application using **IIS** server.
* Ensuring Quality standards for the Project Development by participating in analysis and assessment reviews with the team.
* Designed and coded application components in an **Agile** environment.
* Worked in various SDLC activities Requirement gathering and analysis, application Design testing various Business scenarios, Test Cases and reviews.

**Environment:**

ASP.Net, C#.Net, ADO.Net, SQL Server, LINQ, Web Server, XML, VS2012, Oracle, JDBC, HTML, AJAX, CSS,