

**Mohan Krishna Medisetti**

Sr. Azure DevOps Engineer

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**Professional Summary:**

With more than 11 years of extensive IT experience across both public and private cloud environments, including Azure, AWS, OpenStack, and Kubernetes, I am a certified administrator with expertise in CI/CD pipelines, source code management, build/release processes, and virtualization technologies. I have strong troubleshooting skills, especially in addressing performance issues, and a solid background in UNIX, Linux, and Windows platforms. My experience covers Agile and Waterfall methodologies in the software development lifecycle, along with advanced knowledge in Kubernetes, OpenShift, Docker, Terraform, Azure DevOps, scripting languages, and monitoring tools.

**Technical Skills:**

* **Cloud Technologies**: Azure, AWS, open stack
* **Containerization:** Docker, Docker Swarm, Kubernetes
* **CI/CD Tools:** Jenkins/Hudson, Azure dev0ps
* **Configuration Management Tools:** Ansible, Chef, Puppet, Ansible Tower
* **Version Control Tools:** GIT, GitLab Bitbucket, SVN, TFS, Subversion
* **Scripting/programming Languages:** Python, Shell (PowerShell/Bash), Ruby, YAML, JSON, Perl, Groovy, JavaScript, C, PHP, Java/ J2EE, .Net, Spring Core, Spring MVC, REST Web services
* **Monitoring Tools:** Splunk, Nagios, ELK, App Dynamics, Cloud Watch, Prometheus, Grafana
* **Virtualization Technologies:** VMware, Windows Hyper-V, Virtual box, Vagrant
* **Operating Systems:** Ubuntu, CentOS, RedHat Linux, Windows.
* **Databases:** MySQL, MS Access, NoSQL (MongoDB, DynamoDB)
* **Web Servers:** Apache HTTP 3.x, Apache Tomcat, Nginx
* **Build Tools:** Maven, Ant, Gradle
* **Bug Tracking Tools:** JIRA, Service Now, Remedy
* **Repository Management:** JFrog, Nexus, Artifactory

**Certifications:**

* AWS Certified Solutions Architect– Associate
* Microsoft Azure Administrator
* Certified Kubernetes Application Developer
* HashiCorp Certified: Terraform Associate

**Education:**

* Bachelors in Computer Science from Sathyabama University, Chennai, India - 2013

**Professional Experience:**

**Client: GTA- State of Georgia (Georgia Technology Authority) Atlanta, GA May 2021 to Present**

**Role: Sr. Azure DevOps Engineer**

**Responsibilities:**

* Deployed **Azure DevOps** for Continuous Integration (CI), Continuous Delivery (CD), and monitoring, addressing build, deployment, and release issues for maintenance, enhancements, bug fixes, and emergency patches, while managing access using **Azure AD** identities and **IAM policies**.
* Implemented **Infrastructure-as-Code** (IaC) practices using **Terraform** and **ARM** templates, automating resource provisioning and configuration across multiple environments.
* Managed **Kubernetes clusters** with **Azure Kubernetes Service** (AKS), enabling efficient container orchestration and scaling of microservices-based applications.
* Developed **Azure DevOps CI/CD pipelines**, integrating **Maven, JFROG, Gradle, and SonarQube**, and implemented **multistage release pipelines** for dev, UAT, and production environments with **Azure Key Vault** for secret management.
* Built CI/CD pipelines in **Azure DevOps** for **.NET** and **Python applications**, integrating source codes from **GitHub** and **VSTS**, and established deployment areas for testing, pre-production, and production in **Azure Kubernetes Service (AKS)**, utilizing **Azure AD Pod Identity** for secure access.
* Implemented **Policy-as-Code** (PaC) solutions using tools like Open Policy Agent (OPA) and HashiCorp Sentinel, automating governance and compliance across cloud environments.
* Worked on the Deployment, Conguration, Monitoring and Maintenance of **OpenShift Container Platform.**
* Designed processes, process templates, applications and build environments for various teams using **UCD** deployment tool.
* Created and managed custom **Docker images**, including tagging and pushing to **Docker Hub**, and utilized **Azure Container Registry (ACR)** for image storage with **IAM** policies to control access.
* Extensive experience in **Kafka architecture**, including setup, configuration, and integration within **Azure environments**, leveraging **Managed Identity** for secure service communication.
* Responsible for managing the **DevOps** process which includes Continuous Integration of **GitHub, Jenkins, JFrog Artifactory** and CA Release Automation.
* Created **CI/CD** pipelines for **.NET**, python apps in **Azure DevOps** by integrating **source codes GitHub, VSTS, artifacts** and created deployment areas such as testing, pre-production and production environment in Kubernetes cluster.
* Enhanced system monitoring and logging by implementing **ELK Stack, Grafana, and Prometheus**, integrated with **GitLab** for improved visibility and troubleshooting, and secured monitoring resources using **Azure IAM** roles.
* Provisioned **ARM templates** in **Azure Pipelines** for custom build processes in **Azure Kubernetes Service (AKS)**, integrated **Azure DevOps** pipelines with **Azure Boards** and **Microsoft Teams** for notifications and **IAM-based** access controls.
* Established and maintained Continuous Integration (CI) processes using **Azure DevOps (VSTS)** across multiple environments, facilitating an automated and agile development process, and enabling secure code deployments in **AKS** using **YAML scripting** and **Azure Role Assignments**.
* Worked with **RedHat OpenShift Container Platform** for **Docker** and **Kubernetes.** Used **Kubernetes** to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using **Terraform** and wrote new plugins to support new functionality in **Terraform.**
* Created **Terraform** (TFE) Sentinel Policies for infrastructure components like networking, Storage and account baselines.
* Integrated **Policy-as-Code** into **CI/CD** pipelines, automatically validating infrastructure and application configurations against predefined compliance policies before deployment.
* Use shell scripts to automate functions inside of **IBM Urbancode** (UCD).
* Implemented the **Hybrid Runbook Worker** feature of **Azure Automation accounts** to run runbooks within applications and automated daily operations using **Azure Automation accounts** with **Managed Identities**.
* Leveraged **Azure Container Instances (ACI)** for data processing, storing processed data in **Azure Blob Storage** with **IAM** policies for access control. Automated the deployment and scaling of **Kafka clusters** using **Infrastructure-as-Code (IaC)** principles and **Azure IAM**.
* Managed **MongoDB database instances**, including installation, configuration, and ongoing maintenance with **Azure IAM** roles for access control.
* Designed an **Azure App Service Plan** in a specific region, utilizing allocated compute resources for application deployment within the **Azure App Service Environment (ASE)**, managing access via **Azure AD** integration.
* Proficient in automating infrastructure deployments using **Infrastructure as Code (IaC)** tools such as **Terraform** and **ARM templates**, with secure provisioning using **Azure IAM roles**.
* Utilized **Shared Image Gallery** for image storage and built **Azure pipelines** in **Azure DevOps** to implement various services, employing **Azure AD identities** and **IAM roles** for security.
* Expertise in deploying applications using **CI/CD tools** like **Azure DevOps** and **GitHub Actions**, integrating automated tests in continuous integration, and running nightly scripts with **GitHub Actions**, managing access with **Azure IAM**.
* Participated in data ingestion processes for Azure services like **Azure Data Lake, Azure Storage, Azure SQL, Azure Data Factory (ADF), and Azure Data Warehouse**, and processed data in **Azure Databricks** using **IAM roles** for secure access.
* Created **Power BI** and **Lens reports** and dashboards using data from **Kusto** and **Azure SQL databases**, sourced from **Cosmos DB** and **Redis DB**, and utilized **scope scripting** with **Azure IAM** for secure data access.
* Integrated existing APIs into **Azure API Management**, managing attributes such as security, usage plans, throttling, analytics, monitoring, and alerts, using **Azure IAM** for access control.
* Import source code from SVN to RTC integrated with **Jenkins, Maven, Sonar** and **UCD** as a continuous integration platform.
* Strong knowledge of **Azure Synapse Analytics**, combining **data warehousing, data integration, ETL pipelines**, and analytics tools for big-data processing, visualization, and dashboards, ensuring secure access with **Azure IAM**.
* Implemented **Kubernetes (K8s)** features, including **Horizontal Pod Auto-scaling (HPA), Kubernetes secrets, readiness and liveness probes, DaemonSets, ConfigMaps, and service accounts**, securing access via **Azure IAM** roles.
* Utilized **Helm Package Manager** to develop custom **Helm charts** and deploy them in **Kubernetes clusters**, with **Managed Identity** for resource security.
* Employed **Argo CD** as a Kubernetes controller for continuous monitoring, ensuring that live applications match the desired target state with secure **Azure IAM** policies.
* Collaborated with development teams to troubleshoot and optimize **Kafka performance** within **Azure environments**, using **Managed Identity** for authentication and access control.
* Implemented **Istio** as a service mesh to manage and monitor network traffic between services across multiple **Kubernetes clusters**, with secure access through **Azure IAM**.
* Monitored **Kubernetes clusters** using **Prometheus**, configuring additional components of the Prometheus stack within **Kubernetes** and managing secure access with **Azure IAM**.
* Used **Flux** to achieve **GitOps** in Kubernetes clusters, ensuring alignment between cluster configurations and Git, automating deployments with **Azure IAM roles** for access.
* Have worked and administered artifact tools including Nexus and **Artifactory.**
* Implemented **Open Service Mesh (OSM)** on **Azure Kubernetes Service (AKS)** to manage traffic, security, and observability for workloads with **Azure IAM** control.
* Designed and implemented **Service-Oriented Architecture (SOA)** with **Ingress and Egress controls** in **Azure Kubernetes Services (AKS)**, utilizing **Azure AD** and **Managed Identity** for secure communication.
* Used **Terraform** to create application stacks and CI/CD workflows with **Bitbucket, Git, Jenkins, and API gateways**, and developed **Lambda functions** to export logs to **Datadog** for dashboards and alerts, with secure access via **Azure IAM**.
* Automated **Sentinel policy workspace pipelines** using **Terraform Enterprise** code, managing secure deployments with **Azure IAM**.
* Defined and enforced security and compliance policies using **Policy-as-Code** in infrastructure provisioning workflows, ensuring consistent application of organizational standards.
* Implemented **Azure DevOps** solutions for development teams, managing source control, work item tracking, and build and release management, with **Azure IAM** and **Azure AD** integration for secure access.
* Developed and executed **PowerShell, Python**, and **Shell scripts** to automate deployment processes with **Azure AD** and **IAM roles** for security.

**Client: Verizon, Irving, TX Nov 2019 to Apr 2021**

**Role: Azure Devops Engineer**

**Responsibilities:**

* Developed **dashboards** in **Azure DevOps** to monitor **CI/CD pipelines**, track **work items**, and manage **bug logs**. Identified and logged defects in **Azure DevOps** and interacted with developers to prioritize the issues.
* Built **Azure infrastructure** using **ARM templates** and **Azure pipelines** for automated **build, test**, and **release processes**. Managed **Azure Container Registry (ACR)** for storing and deploying private **Docker images**.
* Provisioned and automated infrastructure across various cloud services (**PaaS**, **SaaS**, **IaaS**) for deployment on cloud platforms. **Applied Azure IAM roles** to ensure least-privilege access to cloud resources, enhancing security compliance.
* Create various custom application, component templates and custom **UCD plugins.**
* Defined **CI/CD** reusable pipelines and shared libraries in **Jenkins.**
* Managed playbook book executions in **Ansible, UCD** and **Jenkins.**
* Designed **Network Security Groups (NSGs)** to manage inbound and outbound traffic for NICs, subnets, and VMs. Created **Azure Key Vault** and Variable groups for secure storage of certificates and secrets, **utilizing Azure IAM policies** to control access.
* Worked on setting up multiple provider projects using Enterprise **OpenShift container platform.**
* Created Repos in the **JFrog Artifactory** for storing the generated Maven and npm artifacts from **Jenkins.**
* Migrated **SQL Server databases** to **Azure SQL Database** using **SQL Azure Migration Wizard** and automated log uploads to **Azure Blob storage** via **Python API**.
* Utilized **HashiCorp Vault** to securely store secrets, manage certificates, and provide application-level encryption.
* Implemented **Kafka monitoring** and alerting using **Azure Monitor** and the **ELK Stack**.
* Deployed and managed containerized applications in **Kubernetes clusters**, orchestrated through **GitLab CI/CD**.
* Managed **Azure Databricks clusters**, optimizing them for **big data processing** and scalability.
* Built and maintained **Virtual Machine Scale Sets (VMSS)** clusters to support various workloads, enhancing build flexibility through **Azure Pipelines (Classic, Release, and YAML)**.
* Developed **Azure Automation Assets**, including **graphical and PowerShell runbooks**, to manage **PaaS** and **IaaS environments** in **Microsoft Azure**.
* Automated cloud services deployment, including **Jenkins** and **Buildkite on Docker**, using **Terraform**. Configured infrastructure using Terraform scripts, incorporating **Azure IAM** for secure access control.
* Specialized in deploying microservices and developing applications using **Azure services** like **Azure DevOps**, **Kubernetes Service (AKS/EKS)**, MySQL DB, **Grafana**, and **RBAC**, with a focus on monitoring clusters and **managing access via Azure IAM**.
* Managed **test plans, suites**, and **cases** using **Azure DevOps**. Installed and utilized the **Test and Feedback Extension** for authoring, running, and analyzing manual tests.
* Implemented production environments using **Terraform** and **Terragrunt**, with backend state management in **S3**.
* Deployed **Java Spring Boot applications** on **Kubernetes clusters** hosted on **Azure Container Instances (ACI)** and optimized performance using **AppDynamics**.
* Installed Jenkins Plugins for **GIT Repository**, Setup SCM Polling for Immediate Build with Maven and Maven Repository (Nexus Artifactory).
* Worked with Red Hat **OpenShift Container Platform** for **Docker** and **Kubernetes**. Used Kubernetes to manage containerized applications using its nodes, CongMaps, selector, Services and deployed application containers as Pods
* Utilized **JFrog Artifactory** to build projects and manage artifacts in both Artifactory SaaS and Artifactory Edge.
* Worked with **Red Hat OpenShift** for **Docker** and **Kubernetes**, managing containerized applications through **nodes, ConfigMaps**, and **services**, and deploying containers as **Pods**.
* Constructed and demonstrated a **continuous integration/continuous delivery** (CICD) software delivery pipeline using RTC SCM and build integrated with **IBM UCD** across Linux, environments.
* Leveraged **Kubernetes operators** and **Spinnaker pipelines** for automated deployment and management of applications and databases across public and private clouds.
* Deployed and configured **Kafka clusters** on **Azure Kubernetes Service (AKS)**.
* Virtualized servers using **Docker** for test and development environments, automating configuration, scaling, and management through **Docker containers**.
* Actively contributed to **infrastructure as code**, utilizing **Terraform** for execution plans, resource graphs, and change automation, and developed plugins to extend **Terraform's** functionality.
* Created **Terraform (TFE) Sentinel policies** to manage infrastructure components, including networking, storage, and account baselines.
* Designed and implemented **CI/CD pipelines** using **CodePipeline, CodeBuild**, and **CodeDeploy** in **Jenkins**. Automated **Jenkins CLI tasks** through scripting.
* Monitored logs using **Azure Monitor, Azure Log Analytics, Nagios**, and **Splunk**, tailored for tenant-specific needs.
* Developed **Python scripts** to automate log rotation for web servers and created **shell scripts** to automate **SSH key management** and password generation in **Python**.

**Client: Molina Healthcare Inc, Long Beach, CA Aug 2018 to Oct 2019**

**Role: Azure DevOps Engineer**

**Responsibilities:**

* Migrated applications from **Cassandra DB** to **Azure Data Lake Storage Gen 1** using **Azure Data Factory**, set up tables, and performed data analysis in the **Azure cloud environment**.
* Set up **Azure infrastructure** using **ARM templates** and **Azure pipelines** for building, testing, and releasing. Managed private **Docker images** in **Azure Container Registry (ACR)** for deployment.
* Automated **Kafka monitoring** and alerting processes using **Azure Monitor** and **Prometheus**.
* Managed **Azure infrastructure** using **Infrastructure as Code (IaC)** tools like **Terraform** and **ARM templates**.
* Migrated data from **on-premises SQL Server** to cloud databases, including **Azure Synapse Analytics** and **Azure SQL DB**, utilizing **Azure BLOB** and **Data Lake storage** for loading data.
* Automated security scans of infrastructure with **Python**, using the **Azure Python SDK** to monitor network firewalls, unencrypted disks, snapshots, and databases, and sending alerts for non-compliance in the **cloud environment**.
* Assisted in migrating codebases from **PCF** to **Kubernetes (K8s)** and moved **on-premises DevOps platforms** to **Azure CI/CD processes** using **ARM templates, Azure DevOps, App Services, Repos, Test Plans, Pipelines, WebApps**, and **Application Insights**.
* Built and maintained **Virtual Machine Scale Sets (VMSS)** clusters to enhance the flexibility and speed of pipelines (**Classic, Release, and YAML**) for different workloads.
* Support and enhance SDLC cycle by using Docker containers delivered to **OpenShift Container Platform.**
* Designed, configured, and deployed **Azure Automation scripts** to manage applications using **Azure stack services**, including **Compute, Web Mobile, Blobs, Azure Data Factory, Azure Resource Groups, HDInsight Clusters, Azure SQL, Cloud Services**, and **ARM**.
* Migrated **on-premise infrastructure** to **Azure** by building **disaster recovery environments, Azure Recovery Vault**, and **Azure backups** from scratch using **PowerShell scripts**.
* Ensured consistency and reliability of **Azure infrastructure** by managing it through **Infrastructure as Code (Terraform)**.
* Utilized **Azure DevOps** for managing **test plans, suites,** and **cases**, and installed the **Test and Feedback Extension** to author, run, and analyze manual tests.
* Configured and maintained **Kafka clusters** for real-time **data streaming** and processing, ensuring high availability and fault tolerance.
* Established **load balancers** in **Azure** to distribute incoming traffic across **virtual machines** and developed an automation system using **PowerShell scripts** and **JSON templates** for **Azure services**.
* Employed **Azure Kubernetes Service (AKS)** to support **Agile development programs**, including continuous integration (**CI**) and continuous delivery/deployment (**CD**), integrating with **Azure DevOps, ACR,** , and monitoring tools.
* Developed **Kubernetes pods** and **services** and built **microservices** by integrating **Jenkins** with **Docker containers** using **CloudBees** and **Docker pipeline plugins**.
* Deployed **Java Spring Boot applications** on **Kubernetes clusters** hosted on **Azure Container Instances (ACI)** and managed performance using **AppDynamics**.
* Worked with **Red Hat OpenShift Container Platform** to manage containerized applications in **Docker** and **Kubernetes**, using **nodes, ConfigMaps, node-selector**, and **services**, and deployed application containers as **Pods**.
* Automated deployment and management of applications and databases across public and private clouds using **Kubernetes operators** and **Spinnaker pipelines**.
* Created **Terraform (TFE) Sentinel Policies** for managing infrastructure components like **networking, storage**, and account baselines.
* Monitored logs using **Azure Monitor, Azure Log Analysis, Nagios**, and **Splunk Index**, tailored for tenant-specific requirements.
* Configured **Prometheus** for performance tracking and security, and used **Grafana** for collecting metrics, queries, and logs. Monitored and logged application alerts with **Echo, Dynatrace**, and the **Azure portal**.

**Client: LPL Financial, Bengaluru, Ind Dec 2016 to May 2018**

**Role: Build and release Engineer**

**Responsibilities:**

* Created **Azure Resource Groups** and implemented **role-based access control** for users using **Azure Management APIs**. Integrated **Single Sign-On (SSO)** authentication and authorization via **Azure Active Directory**.
* Extensive experience managing **Azure services** and subscriptions through **Azure portals**, including handling **Azure resources** with **Azure Resource Manager**.
* Integrated **Azure AD** with **Windows-based Active Directory** and applications. Managed **identity access** across **Azure Subscriptions, Azure AD, Azure AD Application Proxy, Azure AD Connect**, and **Azure AD Pass-Through Authentication**.
* Built pipelines in **Azure Data Factory** to migrate data from **on-premises environments** to **Azure SQL Data Warehouse** and from **Amazon S3 buckets** to **Azure Blob Storage**.
* Developed a migration strategy to transition workloads from **on-premises Active Directory** to **Windows Azure** and created new **cloud-ready application solutions**.
* Configured and set up **Azure Cosmos DB SQL API** for data storage related to **Connectivity Check** and **Workshop User WebUI** tools. Also configured **Azure Load Balancers, Private Link Service**, and **Private Endpoints**.
* Hands-on experience with scripting languages like **Shell, Ruby, Groovy, Python, Perl**, and **XML**, along with database management using **MySQL, MongoDB, DynamoDB**, and **Elastic Cache**.
* Automated code builds and deployments using **Jenkins, Ant, Maven, Nexus, Shell Script**, and **Java/J2EE**.
* Utilized **JFrog Artifactory** to build projects and manage artifacts in both **Artifactory SaaS** and **Artifactory Edge**.
* Conducted **Data Center Migration** from **Physical Servers to Virtual Servers (P2V)** using **VMware Converter**.
* Extensively worked with **Ansible Playbooks, Inventory files**, and the **Vault feature** for **server configuration, software deployment, data encryption**, and orchestrating **continuous deployments** or **zero-downtime rolling updates**. Managed **Ansible Tower** for its dashboard and **role-based access control** features.
* Developed various **Terraform modules** for infrastructure management and authored a module published to the **Terraform registry** for deploying products in client environments.
* Experienced in installing and maintaining **Kubernetes** on **on-premises cloud servers**, configuring **master and slave nodes** to establish and manage **clusters**.
* Worked with **Docker** and **Kubernetes** across multiple **cloud providers**, assisting developers in building and containerizing applications for **CI/CD** and deploying them on both **public and private clouds**.
* Utilized **CI/CD tools** like **Jenkins, Git/GitHub, Jira**, and **Docker registry/daemon** for **configuration management** and automation using **Ansible** and **Chef**.
* Leveraged **GitLab** within the **CI/CD pipeline**, using **Git** for **version control, issue tracking, pipeline management**, and **wiki documentation** to integrate and automate the **code checkout process**.

**Client: Constellation Energy, Bengaluru, Ind July 2015 to Nov 2016**

**Role: Devops Linux Administrator**

**Responsibilities:**

* Worked extensively in **AWS**, utilizing services like **EC2, ELB, S3, CloudFormation templates, VPC, Route 53, RDS**, and **CloudWatch** to optimize infrastructure.
* Managed **AWS services** including **IAM** for user accounts, **RDS, Route 53, VPC, RDB, DynamoDB, SES, SQS**, and **SNS** within the cloud environment.
* Migrated **VMware VMs** to **AWS** using **AWS CLI** by uploading data to **S3** and utilizing the **EC2-import-image** feature and established a **disaster recovery repository** for VMs in **AWS** using **Elastic Beanstalk**.
* Automated infrastructure deployment end-to-end by managing **AWS services** such as **Elastic Beanstalk, RDS Aurora, Lambda, S3**, and **Neptune** with **Terraform** to support **Docker-based applications**.
* Created **AWS components** to establish a **private cloud infrastructure** and facilitated the migration of **on-premise database** and **application servers** to **AWS**.
* Modernized applications by writing **Dockerfiles**, building **Docker images**, and scanning them for vulnerabilities using tools like **Twistlock** and **AWS Inspector**.
* Developed **REST APIs** for **microservices** with **AWS API Gateway (APIG)** and created **Docker images** using **multi-stage build processes**.
* Performed administrative and management tasks in **Linux environments** using **shell scripts** written in **Bash, Python, C Shell**, and automated them with **CRON jobs**.
* Proficient in installing and configuring **web servers**, including **HTTP Web Server** and **Apache**, on **Ubuntu, Red Hat Linux, Fedora, CentOS**, and **Amazon Linux** instances.
* Installed and configured **database servers** like **SQL Server, Oracle, MongoDB**, and **DynamoDB** across various **Linux distributions**, including **Oracle Enterprise Linux, RedHat Enterprise Linux**, and **Ubuntu**.
* Hands-on experience with **version control tools** such as **Git, Bitbucket**, and **SVN**, managing **branching, merging, tagging**, and **version control** across **Windows** and **Linux** platforms.
* Strong expertise in **installation, upgrades, patches, migrations, security, configuration, packaging, troubleshooting, backups, disaster recovery, performance monitoring**, and **optimization** across **Unix, Linux**, and **Windows** systems.

**Client: Sutherland Global Services, Hyderabad, Ind Aug 2013 to June 2015**

**Role: Python Developer**

**Responsibilities:**

* Developed a **Python CLI wrapper** to interface with web applications, enabling the execution of **REST API** calls.
* Worked on various tasks in **C** and **C++**, integrating them with **Python**.
* Implemented **Python web frameworks** such as **Django, Flask, Pylons, Web2py**, and **Python Servlet Engine (PSE)**. • Utilized **Python** to embed **JSON** and **XML**, producing **HTTP GET requests** and parsing **HTML** data from websites.
* Extended the existing **Deal Model** in **Python** to create **object data structures** for **regulatory reporting**.
* Designed and developed **UI components** with event handling using **HTML, CSS, JavaScript, jQuery,** and **AJAX**, ensuring a consistent look and feel across the website.
* Implemented **jQuery** for **UI validation** and used **AngularJS** for client-side development.
* Used **JUnit** to develop **test cases**, verifying application functionality.
* Developed **MapReduce/Spark modules** in **Python** for **machine learning** and **predictive analytics** in a **Hadoop environment** on **AWS** and implemented a **Python-based distributed random forest** via **Python-Streaming**.
* Maintained and enhanced existing **MySQL databases**.
* Utilized **HTML5, CSS3, JavaScript**, and **React.js** for **UI development** and **feature enhancements**.
* Used **React.js, React Query,** and **React-Redux** to develop the application's **dashboard**.
* Developed **map-reduce flows** in a **Hadoop environment** using **Python**.
* Collaborated and contributed to **code repositories** using **Git** for **version control**.
* Experience with **Maven** and **Gradle** as **build tools** for project development.
* Wrote **unit** and **integration test cases** using **JUnit, Mockito, React Testing Library,** and **Jest** to ensure **code quality** and **functionality**.