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| **Job Descriptions for Cloud Practice AWS** | Jan  2019 |

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| --- | --- |
| Role | **AWS BI and UI Engineer** |
| Band | B1/B2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 4 to 8 years in which minimum 2 years experience in BI and/or UI/Web development |
| Skills | **Mandatory Skill**:   * BI Report, User Interface or Front end Developer with familiarity in AWS Console, EC2, S3, Ability to write APIs and interact with microservices, relational databases (Oracle, MS SQL, etc.), SQL, prior experience in web development   **Primary Skill**:   * BI Reports Development – * At least any two - AWS **QuickSight**, **Tableau**, QlikView, QlikSense, SAP Business Objects, WebI, Crystal Reports, Lumira, OBIEE, Cognos, OLAP, Cubes, D3, High Charts, Kinaba, Power BI * UI Development – * At least any two **- AngularJS**, NPM, TypeScript, **HTML 5**, CSS, Sass, java Script, JQuery   **Secondary Skill**:   * BI Report Development – Database, SQL, Business Intelligence, Data Warehousing, ETL (Data Stage, Informatica, Web Methods, etc.) * UI Development – Java Scripting, Java, Web Development, BI Reporting |
| Search Keywords | BI, Business Intelligence, Reports, QuickSight, Tableau, QlikView, QlikSense, SAP Business Objects, WebI, Crystal Reports, Lumira, OBIEE, Cognos, D3, High Charts, OLAP, Cubes, AngularJS, NPM, TypeScript, HTML 5, CSS, Sass, JQuery, Kibana, web development |

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| Role | **AWS SysOps Engineer** |
| Band | B1/B2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 4 to 8 years in which minimum 2 years’ experience in Infra and Security |
| Mandatory Skills | **Mandatory Skill**:   * Have worked AWS or Azure Platform – Infrastructure As A Service (IaaS) offerings.   **Primary Skill**:   * Ability to create templates and build infrastructure as code (Cloud Formation) * Experience in building network (CIDR, **VPC**, Subnets, Routing Tables, DNS (**Route53**) Gateways, **Firewalls** – Security Groups, Network Access Control List), virtual machines, hypervisors, storages on AWS Platform. * Experience in handling AWS Infrastructures such as Virtual Machines (**EC2**, Lightsail), storages (S3, EBS, EFS), build clusters for Big Data – **EMR**, EC2, Build clusters for databases RDS and Redshift * Experience in **System Operations** Role   **Secondary Skill**:   * Ability to handle non-functional requirements – such as fault tolerance, durability, availability, multi availability zone and multi region deployments, scaling infrastructure horizontally and vertically. * Exposure to containerization – docker, Kubernetes, EKS, ECS, ECR * Compliance, Governance and Physical Security: CloudTrail, VPC Flow Log, S3 Server Access Logs, Encryption of Data at rest and motion * Administer, maintain, and monitor infrastructure on AWS cloud using AWS Cloud Watch, Auto Scaling Groups, Placement Groups, Elastic Load Balancers (ELB) * Hybrid Cloud platform – AWS Storage gateway, Direct Connect VPN ISPec * Ability to participate in back-ups, DR activities, ability to take Snapshots, restore images, build Amazon Machine Images, AMIs. * Support migration and large data movements using Snowball |
| Search Keywords | Network, CIDR, VPC, Subnets, Routing Tables, DNS, Route53, Storage Gateways, Firewalls, Security Groups, Network Access Control List, virtual machines, hypervisors, storages, EBS, EFS, Auto Scaling, ELB, Security, Encryption, VPN, IpSec, Load Balancers, Hybrid Cloud, Direct Connect, Snowball, AMI, Amazon Machine Image, CloudTrail, CloudWatch, KMS, Key Management System, Server Access Logs, Placement Groups, back up, Disaster Recovery, DR, Snapshots, Administration, Infrastructure, data center, EC2, EMR, Kubernetes, Docker, Cluster |

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| Role | **AWS Data Engineer** |
| Band | B1/B2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 4 to 8 years in which minimum 2 years experience in Data Engineering |
| Mandatory Skills | **Mandatory Skill**:   * Must have worked in Cloud Platform as Data Engineer   **Primary Skill**:   * Databases – AWS **RDS** (Aurora, MariaDB, Postgre SQL, MySQL, MS SQL, Oracle), **Redshift**, Teradata, Netezza, Stored Procedures, T-SQL, PL-SQL, Hive, Kudu * ETL tool – AWS **Glue**, AWS Data Pipeline, AWS Batch, Talend, Data Stage, Web Methods, Matillion, Sqoop, Flume, Logstash, Apache PIG * Programing language – **Python, Java, Scala** * Big data processing framework – Spark or Hadoop on EMR * Big Data Storage – S3, HDFS, GFS * Big Data query tool – Apache Drill, Impala, HiveQL   **Secondary Skill**:   * Any streaming technology – Kinesis, Kafka, Kinesis Firehose, Flink, Akka, Air Flow * Any NoSQL – DynamoDB, Cassandra, MongoDB, HBase, Druid, CouchDB * Any AWS Serverless – **Lambda**, Athena, Spectrum, Step Functions, AWS Batch * Any queues/notification – SQS, SNS, **Kinesis**, SWF, Cloudwatch Metrics * Prior experience in any data warehouse or analytical tool – Oracle Business Analytics Warehouse, OBIEE, MS SQL PDW, Oracle Essbase, etc. * Prior experience with any data quality tool * Prior experience with any enterprise application integration (EAI) tool such as Tibco, IBM WebSphere, oracle Fusion, BizTalk, etc * Serverless: Lambda, Glue, DynamoDB etc. * Experience in OOPs, functional programing, SOA, Microservices, container-based development. |
| Search Keywords | Big Data, Hadoop, Spark, EMR, Scala, Python, Java, micro services, AWS RDS, Aurora, MariaDB, Postgre SQL, MySQL, MS SQL, Oracle, Redshift, Teradata, Netezza, Stored Procedures, T-SQL, PL-SQL, AWS Glue, AWS Data Pipeline, AWS Batch, Talend, Data Stage, Web Methods, Matillion, Sqoop, Flume, S3, HDFS, GFS, Drill, Impala, PIG, Hive, Apache Drill, Apache Beam, Impala, Kudu, NoSQL, DynamoDB, Cassandra, MongoDB, HBase, Druid, CouchDB, Kinesis, Kafka, Kinesis Firehose, Flink, Akka, Air Flow, Serverless, Aws Lambda, AWS Athena, AWS Redshift Spectrum, AWS Step Functions, AWS Batch, SQS, SNS, Kinesis, SWF, Cloudwatch Metrics. Micro services, Lambda |

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| Role | **AWS DevOps Engineer** |
| Band | B1/B2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 4 to 8 years in which minimum 2 years experience in DevOps |
| Mandatory Skills | **Mandatory Skill**:   * Must have prior DevOps or IT Operations experience * Excellent in communication skill * Must have production support experience   **Primary Skill**:   * Dev Ops working knowledge with tools such as **Jenkins, Terraform**, **Git** * Has working knowledge or exposure to some of the following AWS Dev Ops tool.   + Continuous Delivery/Continuous Integration – AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy, AWS CodeStar   + Microservices – Docker, Lambda Serverless   + Infrastructure as a Code – AWS **Cloud Formation**, AWS Opswork, AWS System manager, AWS Config   + Monitoring and Logging – AWS **CloudWatch**, AWS X-Ray, AWS CloudTrail   + Messaging: Slack   + PaaS: Elastic Beanstalk   + Version Control: AWS CodeCommit * **Scripting Skill**   + JavaScript, Python, Perl, or Ruby, Bash/Shell scripting, familiarity with JSON file formats * Infrastructure knowledge of public cloud (VPC and networking, EC2, EBS, S3, IAM, Auto Scaling, etc) * Security and Governance on AWS platform * Strong knowledge in Unix   **Secondary Skill**:   * Gradle, Bamboo, ARM templates * Containerization – Docker, **Kubernetes**, AWS KCS, EKS, ECR * Configuration – Puppet, Chef, Ansible * Monitoring – Nagios, Ray gun |
| Search Keywords | DevOps, ITOps, AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy, AWS CodeStar, Docker, Lambda, Serverless, AWS Cloud Formation, AWS Opswork, AWS System manager, AWS Config, AWS CloudWatch, AWS X-Ray, AWS CloudTrail, IaaS, Infrastructure as a Service, templates, AWS Cloud Formation, AWS Opswork, AWS System manager, AWS Config, AWS CloudWatch, AWS X-Ray, AWS CloudTrail, Slack, AWS Elastic Beanstalk, AWS CodeCommit, JavaScript, Python, Perl, or Ruby, Bash, Shell scripting, VPC and networking, EC2, EBS, S3, IAM, Security, Unix, Governance, Gradle, Git, Jenkins, Bamboo, AWS KCS, EKS, ECR, Puppet, Chef, Ansible, Nagios, Ray gun |

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| Role | **AWS AI & ML Engineer** |
| Band | B1/B2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 4 to 8 years in which minimum 2 year experience in Data Science |
| Mandatory Skills | **Mandatory Skill**:   * Must have strong analytical problem solving ability * Strong academic background, preferably in statistics.   **Primary Skill**:   * Some of the following core Data Science Skills:   + Must have some core data science knowledge such **probability**, **inference**, **clustering**, **classification**, **association**, Linear and Logistics **regression**, Random Forests, Feature selection, predictive modelling techniques, Understand machine learning models – supervised and unsupervised **machine learning**, ML frameworks -Tensor Flow, Neural network, deep learning, MXNet, H2O, Scikit-Learn, Theano, Café, PyTorch * Programming skill in **R**, **Python**, SAS, Java, Scala, SPSS, Apache Mahout * Ability to **data wrangling**, and cleanse data on Big data Platform using Spark or Map Reduce, PIG, Hive, etc * Ability to extract data and standardize data from databases, file systems, web scrapping * Data Visualization skill using R Shiny, Tableau, QuickSight, etc * Has working knowledge or exposure to some of the following AWS tool.   + Amazon **Sage Maker**   + **Machine Learning**   + **EMR**, EC2, some common Hadoop and Spark tools, including Spark ML   **Secondary Skill**:   * Natural Language Processing, Text Search, Named Entity recognition, NLTK * Search and Ontology, Elastic Search * Some more AWS Tools   + Amazon Comprehend   + Amazon Lex   + Amazon Polly   + Rekognition   + Amazon Transcribe   + Amazon Translate   + Amazon Personalize   + Amazon Forecast   + Amazon Textract |
| Search Keywords | R, SAS, Python, ML, Machine learning, Deep Learning, inference, clustering, classification, association, Linear and Logistics regression, Random Forests, Feature selection, predictive modelling techniques, Neural network, deep learning, understand machine learning models – supervised and unsupervised learning, Java, Scala, SPSS, data wrangling, Spark, Map Reduce, PIG, Hive, R Shiny, Tableau, QuickSight, Amazon Sage Maker, Machine Learning, EMR, EC2, ML frameworks -Tensor Flow, Neural network, deep learning, MXNet, H2O, Scikit-Learn, Theano, Café, PyTorch, Java, Scala, SPSS, Apache Mahout, Spark or Map Reduce, PIG, Hive, R Shiny, Tableau, QuickSight, Amazon Sage Maker, EMR, EC2, Natural Language Processing, Text Search, Named Entity recognition, NLTK, Search and Ontology, Elastic Search, Amazon Comprehend, Amazon Lex, Amazon Polly, Rekognition, Amazon Transcribe, Amazon Translate, Amazon Personalize, Amazon Forecast, Amazon Textract |

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| --- | --- |
| Role | **AWS SysOps Specialist** |
| Band | C1/C2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 8 to 12 years in which minimum 4 years experience in Infra and Security |
| Mandatory Skills | **Mandatory Skill**:   * Have worked on AWS Cloud or similar – Infrastructure As A Service (IaaS) offerings.   **Primary Skill**:   * Build and maintenance of cloud and **on premise infrastructure**; supporting production and development environments * Experience in building logical and **physical architecture** on AWS Cloud, ability to do infra **sizing, cost optimization** and define **best practices around NFRs** (**security, scalability, fault tolerance**, **DR**, etc) * Develop, integrate and maintain core systems for various clients and projects which includes **optimization**, **monitoring**, **patching/maintenance**, troubleshooting and supporting the end-to-end release process within the infrastructure and deployment pipeline. * Strong knowledge of **Routers, Switches and Network Topology** (CIDR, VPC, Subnets, Routing Tables, DNS (Route53) Gateways, Firewalls * Strong knowledge of TCP/IP, IP Classes and Security * Managing AWS Infrastructure such as **EC2s, RDS, Elastic cache, S3, IAM, cloud trail and other services like Cloud front, Route53 and SQS/SNS** provided by AWS. * Experience Building a **multi-region** highly available auto-scaling infrastructure that optimises performance and cost plan for future infrastructure as well as maintain & optimise existing infrastructure. * Conceptualise, architect and **build a secured network utilising VPCs** with inputs from the security team and build automated deployment pipelines in a **CI/CD environment** like AWS CodeDeploy, AWS CodePipeline & Jenkins. * Scripting and tooling Certifications on Cisco, Microsoft, VMware, Amazon Web Services are a plus. AWS Certifications (SysOps Professional certification) * Experience of large data migration from on-prem to AWS cloud (Snowball, DirectConnect, VPN IpSec tunnels)   **Secondary Skill**:   * Ability to handle non-functional requirements – such as fault tolerance, durability, availability, multi availability zone and multi region deployments, scaling infrastructure horizontally and vertically. * Exposure to containerization – **docker, Kubernetes**, EKS, ECS, ECR * Compliance, Governance and Physical Security: **CloudTrail, VPC Flow Log, S3 Server Access Logs, Encryption of Data** at rest and motion * Administer, maintain, and monitor infrastructure on AWS cloud using AWS **Cloud Watch**, **Auto Scaling Groups**, Placement Groups, **Elastic Load Balancers (ELB)** * Hybrid Cloud platform – AWS Storage gateway, Direct Connect VPN ISPec * Ability to participate in back-ups, DR activities, ability to take Snapshots, restore images, build Amazon Machine Images**, AMIs**. * Support migration and large data movements using Snowball |
| Search Keywords | AWS, Cloud, Iaas, Saas, Virtualization, Network, Infrastructure, Active Directory/LDAP, Automation/DevOps, Network, CIDR, VPC, Subnets, Routing Tables, DNS, Route53, Storage Gateways, Firewalls, Security Groups, Network Access Control List, virtual machines, hypervisors, storages, EBS, EFS, Auto Scaling, ELB, Security, Encryption, VPN, IpSec, Load Balancers, Hybrid Cloud, Direct Connect, Snowball, AMI, Amazon Machine Image, CloudTrail, CloudWatch, KMS, Key Management System, Server Access Logs, Placement Groups, back up, Disaster Recovery, DR, Snapshots, Administration, Infrastructure, data center, EC2, EMR, Kubernetes, Docker, Cluster |

|  |  |
| --- | --- |
| Role | **AWS DevOps Specialist** |
| Band | C1/C2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 8 to 12 years in which minimum 4 years experience in DevOps |
| Mandatory Skills | **Mandatory Skill**:   * Install, configure, automate, and monitor various AWS Cloud Services (IaaS, PaaS, and SaaS). * Setup and maintenance of build configurations that includes CI/CD pipelines enabled by **Bitbucket, Jenkins, Artifactory, Ansible, Terraform**, and **Packer** * Setup and maintenance of automated testing within tools including **Selenium Grid, SonarQube, and Fortify** * Experience with IP networking, VPNs, DNS, load balancing and firewalling concepts – (Focus on AWS Networking, Palo Alto and Cisco DMVPN) * Experience with Security- IAM, Active Directory, Centrify, MFA, McAfee AV, Tenable/Nessus, Trend Micro, Splunk, STIG Hardening * System Administration Experience with RedHat Linux or Windows Server 2012R2/2016. * **Hands on experience** with DevOps/Automation tools including AWS **CloudFormation, Ansible, Jenkins, Git** * **AWS Certifications** (DevOps Engineer Professional or SysOps Professional certification) * Experience with previous Cloud Managed Services is a plus. * Containerization – Docker, Kubernates, AWS KCS, EKS, ECR   **Primary Skill**:   * Ability to write automation code in a common scripting language (e.g BASH / PowerShell / Python) * Understanding of Internet technologies (TCP stack / DNS / routing and load balancing, etc) * Knowledge of build and deployment mechanisms (e.g Jenkins / Buddybuild / Bamboo / Anthill Pro) * Work with the Cloud Platform Manager to identify possible service improvements and implement these through the Change Management process * Has working knowledge or exposure to some of the following AWS Dev Ops tool.   + Continuous Delivery/Continuous Integration – AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy, AWS CodeStar   + Microservices – Docker, Lambda Serverless   + Infrastructure as a Code – AWS Cloud Formation, AWS Opswork, AWS System manager, AWS Config   + Monitoring and Logging – AWS CloudWatch, AWS X-Ray, AWS CloudTrail   + Messaging: Slack   + PaaS: Elastic Beanstalk   + Version Control: AWS CodeCommit   **Secondary Skill**:   * Gradle, Git, Jenkins, Bamboo * Configuration – Puppet, Chef, Ansible * Monitoring – Nagios, Ray gun |
| Search Keywords | DevOps, ITOps, AWS Networking, Palo Alto, Cisco DMVPN, AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy, AWS CodeStar, Docker, Lambda, Serverless, AWS Cloud Formation, AWS Opswork, AWS System manager, AWS Config, AWS CloudWatch, AWS X-Ray, AWS CloudTrail, IaaS, Infrastructure as a Service, templates, AWS Cloud Formation, AWS Opswork, AWS System manager, AWS Config, AWS CloudWatch, AWS X-Ray, AWS CloudTrail, Slack, AWS Elastic Beanstalk, AWS CodeCommit, JavaScript, Python, Perl, or Ruby, Bash, Shell scripting, VPC and networking, EC2, EBS, S3, IAM, Security, Unix, Governance, Gradle, Git, Jenkins, Bamboo, AWS KCS, EKS, ECR, Puppet, Chef, Ansible, Nagios, Ray gun |

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| --- | --- |
| Role | **AWS Platform Specialist** |
| Band | C1/C2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 8 to 12 years in which minimum 4 years experience in Cloud Platform |
| Mandatory Skills | **Mandatory Skill**:   * Understand **Data Warehouse** and Analytics concept * HANDS ON design and implementation experience on data ingestion transformation data quality management using ETL including **AWS Glue**, **Data Pipeline, Kinesis, RDS & SQS** * Working knowledge of **S3, RDS, Lambda** and document functional and technical requirements from clients. * Design and develop reusable components and accelerators for integration with various systems and data ingestion quality check transformation and load. * Work with developers and the systems engineering team to resolve issues related to application configuration deployment or debugging. * **AWS Certification** associate level is mandatory * Clear concepts about security and governance models and best practices in AWS Cloud   **Primary Skill**:   * Hands on Experience in **AWS Glue including Glue crawler**, **Data Pipeline, Lambda, RDS, Database migration services, Kinesis Streams & Kinesis Firehose**. * Knowledge of other ETL tools such as Ab Initio, **Informatica.** * Exposure to overall AWS landscape covering compute EC2 storage, Elastic File System, S3, network VPC subnets, security IAM Security groups, NACL and DevOps (Code Pipeline & Code Deploy)   **Secondary Skill**:   * Experience using Python scripts to automate the configuration of services and tools * Experience with infrastructure-as-code approach to automating platform provisioning; CloudFormation or Terraform |
| Search Keywords | AWS Glue, Crawlers, Kinesis, Firehose, RDS, SQS, SNS, S3, Lambda, Data Pipeline, EFS, EC2, NACL, AWS CodeCommit, JavaScript, Python, Perl, or Ruby, Bash, Shell scripting, VPC and networking, EC2, EBS, S3, IAM, Security, Unix, Governance |

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| --- | --- |
| Role | **AWS Data Specialist** |
| Band | C1/C2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 8 to 12 years in which minimum 4 years experience in Data Engineering |
| Mandatory Skills | **Mandatory Skill**:   * Experience in data mining, **ETL**, etc. and using databases in a business environment with large-scale, complex datasets. * Experience with a **Data Warehouse technology** (Oracle, Teradata, Netezza, Preferably **Redshift**) and relevant data modeling * Coding proficiency in at least one modern programming language (e.g. **Python, Java/Scala**) * AWS **Certifications** (Developer or solutions architect – associate level) is mandatory, Cloudera Certification, Databricks certification, NoSQL Certification (MongoDB, Cassandra) will be a plus * Hands on knowledge about distributed computing and storage (**Hadoop**, **Spark**) * Hands on Knowledge about **NoSQL** Databases (HBase, DynamoDB, MongoDB, Cassandra, CouchDB, etc) * Ability to wrangle/query data using Spark, SparkSQL, Hive, PIG, Druid, Kudu, Impala * Has experience in working in Big data Hadoop distributions (Horton works, Cloudera, MapR, **Amazon EMR**) * Ability to create data pipelines using Nifi, AWS Data Pipelines, Glue, AWS Step functions, Lambda, SQS, Apache Air Flow, Oozie, etc.   **Primary Skill**:   * Migrated on premise database structure to Redshift data warehouse * Worked on AWS Data Pipeline to configure data loads from S3 to into Redshift * Used JSON schema to define table and column mapping from S3 data to Redshift * Experienced writing multi-threaded programs requiring concurrency and synchronization primitives * Experience with database systems internals, query optimization, and query execution * Experience processing large amounts of data, in various formats such as Parquet, ORC and processing data in batch mode, and streaming mode * Experience building/operating systems for data extraction, ingestion, and processing of large data sets involving petabytes of data * Worked on various data normalization jobs for new data ingested into Redshift * Experience with Hadoop-based technologies such as HBase, Pig, Hive and Spark * Experience with one or more of the ETL tool **– AWS Glue, AWS Data Pipeline, AWS Batch, Talend, Data Stage, Web Methods, Matillion, Sqoop, Flume, Logstash, Apache PIG**   **Secondary Skill**:   * Any streaming technology – Kinesis, Kafka, Kinesis Firehose, Flink, Akka, Air Flow * Any NoSQL – DynamoDB, Cassandra, MongoDB, HBase, Druid, CouchDB * Any AWS Serverless – Lambda, Athena, Spectrum, Step Functions, AWS Batch * Any queues/notification – SQS, SNS, Kinesis, SWF, Cloudwatch Metrics * Prior experience in any data warehouse or analytical tool – Oracle Business Analytics Warehouse, OBIEE, MS SQL PDW, Oracle Essbase, etc. * Prior experience with any data quality tool * Prior experience with any enterprise application integration (EAI) tool such as Tibco, IBM WebSphere, oracle Fusion, BizTalk, etc * Serverless: Lambda, Glue, DynamoDB etc. * Experience in OOPs, functional programing, SOA, Microservices, container-based development. |
| Search Keywords | Big Data, Hadoop, Spark, Redshift, EMR, Scala, Python, Java, micro services, AWS RDS, Aurora, MariaDB, Postgre SQL, MySQL, MS SQL, Oracle, Teradata, Netezza, Stored Procedures, T-SQL, PL-SQL, AWS Glue, AWS Data Pipeline, AWS Batch, Talend, Data Stage, Web Methods, Matillion, Sqoop, Flume, S3, HDFS, GFS, Drill, Impala, PIG, Hive, Apache Drill, Apache Beam, Impala, Kudu, NoSQL, DynamoDB, Cassandra, MongoDB, HBase, Druid, CouchDB, Kinesis, Kafka, Kinesis Firehose, Flink, Akka, Air Flow, Serverless, Aws Lambda, AWS Athena, AWS Redshift Spectrum, AWS Step Functions, AWS Batch, SQS, SNS, Kinesis, SWF, Cloudwatch Metrics. Micro services, Lambda |

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| --- | --- |
| Role | **AWS Integration Specialist** |
| Band | C1/C2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 8 to 12 years in which minimum 4 year experience in Data Integration |
| Mandatory Skills | **Mandatory Skill**:   * Build and maintain **ETL mappings** and workflows * Exceptional skills in database systems (**RDBMS, MPP, NoSQL**) * Strong ability with dimensional **data modelling** and OLAP principles * Solid understanding of flat file formats and **file format** conversion * Ability to identify and diagnose ETL and database related issues, perform root cause analysis, and recommend corrective actions   **Primary Skill**:   * Acquire data from primary or secondary data sources and maintain data systems and application integration * Data Integration tool experience (**Talend, Informatica,** Data Stage etc.) * Develop procedures to enhance reporting and query capabilities to improve efficiency and accuracy * Experience in **AWS Glue** including Glue crawler, Data Pipeline, **Lambda**, RDS, **Database migration services**, **Kinesis Streams & Kinesis Firehose**. * Solid experience in AWS ETL tools or similar – AWS Glue, AWS Data **Pipeline**, AWS Batch, Talend, Data Stage, Sqoop, Apache PIG * Experience using Python scripts to automate the configuration of services and tools * AWS certification is a mandatory (at least associate level) * Experience in application integration (TIBCO, BizTalk, etc)   **Secondary Skill**:   * Lead technical projects and technical integration of B2B platform with customers, platforms, partners and communicate directly with internal and external stakeholders. * Leverage B2B business integration platform to automate business processes with customers, platforms and partners. Continuously improve the integration processes, time and data quality. * Lead external integration architectural discussions and implementations to ensure solutions are designed for successful deployment. |
| Search Keywords | Data Integration, ETL, AWS, Python, Java, micro services, AWS RDS, Aurora, MariaDB, Postgre SQL, MySQL, MS SQL, Oracle, Redshift, Teradata, Netezza, Stored Procedures, T-SQL, PL-SQL, AWS Glue, AWS Data Pipeline, AWS Batch, Talend, Data Stage, Web Methods, Matillion, Sqoop, Flume, S3 |

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| --- | --- |
| Role | **AWS AI & ML Specialist** |
| Band | C1/C2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 8 to 12 years in which minimum 4 year experience in Data Science |
| Mandatory Skills | **Mandatory Skill**:   * A must have advanced level skills with multiple analytical tools such as **SAS, R, Python, Tableau** etc. * Experience with Machine Learning and Artificial Intelligence, **ML algorithms** and approaches * Strong academic background, preferably in **statistics**. * Certification in any of the analytics tools is a plus   **Primary Skill**:   * Some of the following core Data Science Skills:   + Must have some core data science knowledge such probability, inference, clustering, classification, association, Linear and Logistics regression, Random Forests, Feature selection, predictive modelling techniques, Understand machine learning models – supervised and unsupervised learning, ML frameworks -Tensor Flow, Neural network, deep learning, MXNet, H2O, Scikit-Learn, Theano, Café, PyTorch * Programming skill in **R, Python**, SaS, Java, Scala, SPSS, Apache Mahout * Ability to **data wrangling**, and cleanse data on Big data Platform using Spark or Map Reduce, PIG, Hive, etc * Ability to extract data and standardize data from databases, file systems, web scrapping * Data Visualization skill using **R Shiny, Tableau**, QuickSight, etc * Has working knowledge or exposure to some of the following AWS tool.   + Amazon **Sage Maker**   + **Machine Learning**   + EMR, EC2, some common Hadoop and Spark tools, including Spark ML   **Secondary Skill**:   * Natural Language Processing, Text Search, Named Entity recognition, NLTK * Search and Ontology, Elastic Search * Some more AWS Tools   + Amazon Comprehend   + Amazon Lex   + Amazon Polly   + Rekognition   + Amazon Transcribe   + Amazon Translate   + Amazon Personalize   + Amazon Forecast   + Amazon Textract |
| Search Keywords | R, SAS, Python, ML, Machine learning, Deep Learning, inference, clustering, classification, association, Linear and Logistics regression, Random Forests, Feature selection, predictive modelling techniques, Neural network, deep learning, understand machine learning models – supervised and unsupervised learning, Java, Scala, SPSS, data wrangling, Spark, Map Reduce, PIG, Hive, R Shiny, Tableau, QuickSight, Amazon Sage Maker, Machine Learning, EMR, EC2, ML frameworks -Tensor Flow, Neural network, deep learning, MXNet, H2O, Scikit-Learn, Theano, Café, PyTorch, Java, Scala, SPSS, Apache Mahout, Spark or Map Reduce, PIG, Hive, R Shiny, Tableau, QuickSight, Amazon Sage Maker, EMR, EC2, Natural Language Processing, Text Search, Named Entity recognition, NLTK, Search and Ontology, Elastic Search, Amazon Comprehend, Amazon Lex, Amazon Polly, Rekognition, Amazon Transcribe, Amazon Translate, Amazon Personalize, Amazon Forecast, Amazon Textract |

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| Role | **AWS Platform Architect** |
| Band | D1/D2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 12+ in which minimum 7 year experience in any cloud Platform Solutioning |
| Mandatory Skills | **Mandatory Skill**:   * AWS Certified **Solution Architect Associate (mandatory), Professional** level (desirable) * Strong academic background * Experience Required More than **4 years of experience in Architecting** positioning and delivering Data Management Solutions on AWS   **Primary Skill**:   * Some of the following core Skills:   + Must have **2 full life cycle project experience** as Architect using AWS services like Redshift DynamoDB EMR Kinesis Kinesis Firehose Glue including Crawler Data Pipeline RDS S3   + Should have lead large RFP End To End   + 2 years of hands-on software development, infrastructure engineering, or systems architecture * You will possess technical proficiency across different stages of the Software Development Life Cycle including Requirements Elicitation Defining Architecture Design and Development * You will play an important role in defining the solution and technical architecture for various layers of the Data platform Integration Real time and batch Data Ingestion Transformation Data Processing etc data model and creating design artifacts * Sound knowledge of decoupled architecture, idempotent workflows, Lambda and Kappa architecture * Must be able to Architect Design Data modeling and Development of DWBI Analytics Data Ingestion Storage and Processing layers leveraging appropriate AWS cloud services e g Redshift EMR Kinesis Glue S3 RDS etc * NoSQl Data Modelling * Ability to understand AS IS architecture and recommend TO BE architecture Understand and document technical requirements from clients * Define Migration strategy to move to cloud both one time and ongoing Execute migration plan leveraging appropriate AWS services * In depth knowledge of all key data services Ingest Store process and explore on AWS required to build a robust data processing platform on AWS Sound hands experience of RDS Redshift EMR Dynamo DB AWS Glue is a must * Extremely good in communication and convincing skill, Good in Presentation skills with a high degree of comfort speaking with CTOs, enterprise architects, IT management, and developers * Understanding of Machine Learning and Deep Learning concepts and technology * Good understanding on AWS security services like identity and access management (IAM), Role & Policy, key management service (KMS), and audit logging. * Strong working knowledge of Enterprise data warehouse and any of the ETL tool * Implementing DevOps practices such as infrastructure as code, continuous integration and automated deployment * Understanding of Machine Learning and Deep Learning concepts and technology * Hands on with core AWS platform and security architecture, including: service account design, virtual private cloud, network design, subnet, segmentation strategies.   **Secondary Skill**:   * Familiarity with CloudFormation * Experience with configuration management platforms (e.g. Chef, Puppet, Salt, or Ansible) * Strong scripting skills (e.g. Powershell, Python, Bash, Ruby, Perl, etc.) |
| Search Keywords | AWS Certified Solution Architect Professional |

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| --- | --- |
| Role | **AWS AI & ML Architect** |
| Band | D1/D2 |
| Qualification | * Bachelor of Engineering (Information Science, Computer, Electronics and Communication, Electronics and Electrical, or similar), * Bachelor of Computer Application, * Bachelor of Science (IT), Bachelor of Computing. * Or higher graduation in information/computer science |
| Location | * Mumbai * Hyderabad * Pune * Bangalore * Chennai |
| Experience | No of Years: 12+ in which minimum 4 year experience in AI and Bigdata Solutioning |
| Mandatory Skills | **Mandatory Skill**:   * AWS Certified Bigdata * Strong academic background * Experience Required More than 6 years of experience in Architecting positioning and delivering Data Management Solutions on AWS * Minimum of 1 year of experience in **AI/ML/RPA** functional expertise with developing use cases and building/leading Proofs of Concept. * Minimum of 1 year of experience in **predictive modelling** using both supervised and unsupervised learning techniques. * Minimum of 1 year of experience in modern **deep learning approaches** and **natural language processing**. * Minimum of 1 year with at least one statistical computing language for data analysis, such as **R** or **Python**.   **Primary Skill**:   * Work with clients at senior CXO levels to help figure out their AI Adoption Strategy. * Utilize Artificial Intelligence(AI) and big data analysis methods to work within cross-functional teams to engage the internal clients and broader customer base, comprehend the internal client's problems, develop strategic analytical products, support requirements analysis, inform the creation of strategic plans for business transformation, including understanding clients' most complex business challenges, architecting a solution that delivers a measurable outcome, testing the solution, and implementing the transformation. * Apply extensive domain expertise and business acumen to develop multiple insights and theories for complex problems in the Industrial, Manufacturing and Security spaces that require the regular use of ingenuity and creativity and deep understanding of existing methods and solutions. * Extract qualitative and quantitative relationships, including patterns and trends from a wide variety of data. * Use technical and analytical expertise to explore and examine data from multiple disparate Big Data sources with the goal of discovering patterns and previously hidden insights that can provide a competitive advantage or address a pressing mission problem. * Analyze and implement analysis infrastructure and tools, analytic workflow processes, and complex data visualizations and leverage foundational comprehension of mathematical and statistical concepts, algorithm development, feature engineering, model selection, training testing and validation of different models, pipeline generation, and domain expertise to bridge the gap between decision makers and technical experts, ensuring data or modeling solutions meet business requirements. * Contribute to the development of strategies for deploying AI techniques into existing business, development of road map and requirements analysis considering both AI and business potential analysis. * Develop new concepts and experiments for variety of these ideas, translate these ideas into executable action plans, and communicate these plans to a diverse client base. * Deep expertise in neural networks, convolutional neural networks, random forests, classifiers, feature representations, AI / Artificial Intelligence and/or related techniques. * Experience in modern deep learning approaches and natural language processing. Advanced proficiency with at least one statistical computing language for data analysis, such as R or Python   **Secondary Skill**:   * AWS Certified Solution Architect Associate or Professional * Knowledge of relational database concepts, data mining, data warehouses, decision support tools, and programming languages, including SQL, SAP and etc. * Knowledge and experience in key AI platforms (e.g., IBM Watson, Microsoft Azure, chatbots using Microsoft Bot Framework |
| Search Keywords | AWS Certified Solution Architect Professional , AWS Certified Bigdata , AI , ML , Deep Learning , Neural NW, Tensor Flow, R , Python |