**Edgar Ernesto Macias Perez**

**AWS Data Architect**

**Houston, TX**

**PROFESSIONAL SUMMARY**

* Computer Engineer, with more than **20 years of experience** as a **technology consultant** designing IT solution for sectors such as **Database administrator**, System administrator**, ERPs, on-premise to cloud migrations, advanced solution architectures and e-learning**
* More than **6 years as a AWS Architect** & **8 years in AWS** for large cloud and on-premise platforms around the LATAM, EUR and US region
* More than **10 years working with cloud environments**, like **Google Cloud**: **Big Query, Cloud SQL, Cloud Storage, Cloud SDK, Compute Engine, Cloud Endpoints, App Sheet, App Engine, Firebase, Cloud APIs** and for **AWS**: **EC2, Lambda, EC2, Redshift, S3, RDS, DynamoDB, API Gateway, Code Commit, CloudWatch, Amazon Personalize, Athena, Kinesis, AWS Glue, AWS Lake Formation, IAM, Data pipeline.**
* Strong knowledge Unix, Linux and windows administration
* My goal within companies is to design and implement scalable technology solutions to meet two premises: business objectives and a good experience for end users, thus generating positive brand loyalty and publicity. I like the design of technological solutions that generate a cultural impact on companies, these changes can represent great savings within companies
* Experienced in Database engines such as Oracle, MySQL and SQL server.
* knowledge on **bash scripting, php, phyton and java**
* Experiences working docker image creation.

**TECHNICAL SKILL-SETS**

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| --- | --- | --- |
| QA testing | Unit testing Continues improvements | 12 years |
| **AWS** | **S3, RDS, DynamoDB, API Gateway, Code Commit, CloudWatch, Amazon Forecast, Amazon Fraud Detector, Amazon Personalize, Athena, Quick Sight, AWS Glue, AWS Lake Formation, IAM, Data pipeline.** | **8 years** |
| PROGRAMMING LANGUAGES | Java JDK, C++, C, SQL, PL/SQL, PYTHON, PHP, Java Script | 20 years |
| IDES | Eclipse, Visual Studio, Code Studio, Sublime, Atom | 11 years |
| ETL TOOLS | Informatica PowerCenter, Mulesoft, Informatica Cloud, Glue, dbt | 10 years |
| WEB TECHNOLOGIES | JSP, JavaScript, Json, jQuery, AJAX, XML, HTML/XHTML | 10 years |
| WEB SERVICES | SOAP, WSDL, UDDI, REST, SOAP UI | 1 years |
| METHODOLOGIES | Agile, Scrum, CI/CD | 8 years |
| MODELING TOOLS | UML, Visio | 20 years |
| TESTING TECHNOLOGIES/TOOLS | Docker | 5 years |
| DATABASE SERVERS | Oracle 8i/9i/10g/11G/12G, SQL Server 2000/2005/2008, MySQL, Big Query, DynamoDB | 20 years |
| VERSION CONTROL | SVN, GIT | 10 years |
| BUILD TOOLS | Gradle | 2 years |
| PLATFORMS | Windows 2000/98/95/NT4.0, UNIX, Windows 7/10/11, MacOS, Linux, Unix UP-UX/AIX/Solaris | 20 years |

**PROFESSIONAL SUMMARY**

**Employer name: Tata Consultancy Services**

**Client name: German Tech company**

**Location: Remote**

**Position: AWS data architect**

**Duration: Sept 2020 – Present**

**Description**: Work as a support ops engineer providing support for the main application on all environments, our daily basis activities were checking AWS EC2,RDS and Elastic search servers operations and services review, checking if there was any issue present and solve on a proactive way also plan on weekly activities to be accomplish at the end of the week in case of any maintenance windows was planned in order to perform code deploys or RDS database patch as need per development team, review and solve bugs related with application, implement the fix and pass it to QA team in order to test and send the proper deploy on next production sprint.

**Responsibilities:**

* Check heath status on EC2 instances(CPU usage, memory usage and storage usage), RDS Databases, Target groups om EC2 and Load balancer time response.
* Claim tickets related with bugs, diagnose and implement fix as peer requested by client.
* Migrate RDS to latest version in order to resolve any open bug or issue from older versions
* Improve Import Data Validation system for new users on the application to import information into the system
* Implement AWS cli and lambda scripts to automate some daily reactive and proactive tasks.
* Create shells scripts to perform Database migrations and all enterprise environments for specific clients
* Cerate dash boards on CloudWatch service to keep motioning health status on EC2, elastic search, RDS and load balancer services
* Role implementation for new clients to use their own resources on AWS.

***Tools Used:*** Toad, office, AWS (EC2, CloudWatch, RDS, Elastic Search, Lambda, Load Balancer, Target groups, auto scale groups, aws cli, IAM, VPC, peering connection), Mysql, Data Grip, java, PHP, Apache, Linux, shell scripting.

**Employer name: Tata Consultancy Services**

**Client name: German Tech company**

**Location: Remote**

**Position: Snowflake Developer**

**Duration: Sept 2020 – Sept 2021**

**Description**: Work as DWH developer designing data models into snowflake, creating task, schedule jobs, working with micro partitions and virtual DWH. In this first step of the SAP migration, we create the data pipeline to BI tools tableau. Deploy dbt models to data streaming from oracle.

**Responsibilities:**

* Designing, planning and deployment of data models to 15 domains.
* Designing, testing, monitoring and deploy data mart.
* Develop tableau reports to Unit Test, UAT and QA.
* Designing, developing, testing and deploy of dbt models.
* Support to Data models and dbt models into ETL. Supporting All teams from SAP using GCP Servers along with Google Premium support in Americas Time zone for customers using Demo Servers for SAP Company.

***Tools Used:*** Snowflake, DBT, office, AWS (S3), Oracle, jira.

**Employer name: Tata Consultancy Services**

**Client name: JP Automotive Company**

**Location: Remote**

**Position: Data architect**

**Duration: Apr 2020 – Sept 2020**

**Description**: Project automation on-premise and manually datasources to cloud and GCP. Designing and deployment of pipeline for 15 domains and 40 excel tableau reports automation.

**Responsibilities:**

* Data discovery, analysis, cleaning, quality and design layouts.
* Configuring and deploy s3 connections into IICS
* Designing, developing and deploying workflow/mappings into IICS delivering into S3
* Designing and developing snowflake data model regarding 35 domains
* Designing and developing Data Marts
* Develop snowpipe and import data model procedures

***Tools Used:*** Informatica Cloud Services IICS, snowflake, AWS S3, Tableau, servicenow.

**Employer name: Independent Consultant**

**Client name: Health company**

**Location: Remote**

**Position: Data architect**

**Duration: Nov 2018 – Apr 2020**

**Description**: Working as a data architect with a health company which shared cohort-info to his clients, which take data driven to his customers. I design the pipeline using snowflake feed extraction, creating the layouts geography paths and cohort metrics; reading/transforming data with AWS glue and deliver json files into AWS S3 bucket to be consume by AWS DynamoDB all manage by AWS Data Pipeline.

**Responsibilities:**

* Manage data discovery & SCRUM meetings
* Analyze and design health data layout and Data models
* Designing, developing and performance snowflake procedures, tasks, imports
* Manage security Amazon web services IAM
* Design, deploy and test DynamoDB schema and import management
* Develop, performed and test Glue jobs using python and data pipeline
* Develop, test and Schedule jobs to be deploy
* Develop python scripts and infrastructure along with Jenkins CI/CD to support Cloud Deployment Engine in GCP
* Designing, planning and deploying the architecture for GCP Voyage Compute Engine Servers in GCP.
* Create and monitor Infrastructure as code using Python and Stackstorm Clusters and autoscalers using docker deployments, Load Balancers, Instance Groups, Firewalls and app clusters.

***Tools Used:*** *AWS (S3, Data pipeline, DynamoDB, VDI, EC2, cloudwatch, Glue, Lambda), python, snowflake, github, circleci, okta, netsuite, GCP.*

**Employer name: Independent consultant**

**Client name: Meal company**

**Location: Remote**

**Position: Data engineer**

**Duration: Jan 2017 – Sept 2018**

**Description**: Feed internal marketing pipeline using social networks and different kind of data sources.

**Responsibilities:**

* Performed Data analysis & data discovery
* Configure data sources and layouts
* Create ETL process
* Workflows, tasks, mappings into IPC
* Data marts regarding tableau reports

***Tools Used:*** *AWS S3, informatica powercenter, snowflake, tableau, python, github.*

**Employer name: Independent Consultant**

**Client name: Insurrance company**

**Location:** **Remote**

**Position: Data Engineer Oracle Support level 2**

**Duration: Dec 2015 – Jan 2017**

**Description**: Support level 2 into in-house oracle application. Migration on-premise to GCP Cloud.

**Responsibilities:**

* Lead tech team with 20 specialists divided in 3 teams.
* Management and deploy packages, performance, bugs and issues.
* PL/SQL procedures setup and maintenance.
* Performance tuning on customer databases.
* Forms/reports, database and server support.
* Performance assessments.
* Fix and develop forms and reports.
* Installing, administration of Google Kubernetes Cluster GKE, memory and CPU cluster upgrades.
* Monitoring Kubernetes memory, clusters, pools, ReplicaSets, Daemonsets, StatefulSets and Job Controllers for optimal performance and upgrades to Deployments and Pods.

***Tools Used:*** Toad, office, oracle DBMS 9i/12g, Mysql, Oracle forms, oracle reports, PL/SQL , RMAN utility, github, Linux Redhat, Solaris 10, GCP, Kubernetes.

**Employer name: Independent Consultant**

**Client name: Mx Entertainment company**

**Location: Remote**

**Position: Solution architect**

**Duration: Jan 2015 – Dec 2015**

**Description**: create pipeline to interface with accountability, multiple warehouses, finance and payroll.

**Responsibilities:**

* Architecture solutions.
* Data Discovery & Analysis.
* Develop Data models
* Design ETL
* Create code clean and delivery sections.
* Manage loads and pipelines
* Develop glue jobs.

***Tools Used:*** Excel, postman, php, api rest, AWS S3, oracle cloud, oracle DBMS, AWS glue, python, airflow, powerBi.

**Employer name: Independent consultant**

**Client name: Finance company**

**Location: Remote**

**Position: Oracle / Snowflake Sr Developer**

**Duration: Jul 2012 – Jan 2015**

**Description:** Payroll system migration on-premise to cloud.

**Responsibilities:**

* Architect optional solucions.
* Data Discovery and Analysis.
* Design Layouts and Data marts.
* Define domains.
* Performance tuning tests.
* Job schedule.
* Data Model.
* Design DWH & schema.
* Security matrix.

***Tools Used:*** Excel, airflow, dockers, Hadoop, python, IPC, Kubernetes, GPC bigQuery/Sql Cloud, powerBi.

**EXPERIENCE HISTORY**

**Position:** Data & solution architect

**Duration:** Apr 2013– Dec 2015

**Position:** AWS Data Architect

**Duration:** Jan 2011– Apr 2013

**Position:** Snowflake Developer (team Leader)

**Duration:** Jan 2010 – Jan 2011

**Position:** Solution architect

**Duration:** Jun 2009 – Dec 2009

**Position:** Data EngineerJr

**Duration:** Dec 2007 – May 2009

**Position:** IT Consultant Jr

**Duration:** Mar 2002 – Dec 2007

**Position:** Developer Jr

**Duration:** Dec 2000 – Mar 2002

**EDUCATION**

* **Engineer Cybernetics and Computer systems** Universidad La Salle

01/Aug/1999 to 01/Dec/2003

**COURSES**

* AWS Cloud practitioner
* MYSQL advance features
* Snowflake Master class
* Snowflake Essentials
* AWS essentials
* AWS fundamentals
* AWS Data Pipeline
* GCP Fundamentals
* GCP Essentials
* GCP Fundamentals: Core Infrastructure
* Architecting with Google Compute Engine
* Getting started with Google Kubernetes Engine
* Data science on GCP: Architecting Solutions

**LANGUAGES**

* Spanish, English