Leonardo M.
Architect Senior Solutions Architect

SUMMARY

- Senior Solutions Architect with 10x AWS and 4x Databricks certifications, specializing in scalable AWS data and AI architectures including lakehouse, GenAI (Amazon Bedrock), and ML pipelines.
- Skilled in Python, SQL, Spark, and cloud-native tools: AWS Glue, Redshift, Athena, EMR, SageMaker, and Terraform for IaC automation.
- Extensive experience designing and delivering end-to-end data engineering solutions, migrating on-premises systems to AWS, and implementing CI/CD pipelines using AWS Code services.
- Background in distributed computing, big data ecosystems (Hadoop, Apache Iceberg), and enterprise databases (Oracle, PostgreSQL, SQL Server).

TECHNICAL SKILLS

Main Technical Skills	AWS, Databricks
Programming Languages	Java, JavaScript, Kotlin, Python, Scala
AI & Machine Learning	AI, AWS SageMaker, AWS SageMaker (Amazon SageMaker), GenAI, NumPy, Scikit-learn
Java Frameworks	Apache Spark, Hibernate, PrettyFaces, Spring Boot, Struts 2
Scala Frameworks	Apache Spark
PHP Frameworks	CakePHP
Java Libraries and Tools	JPA, JSF, Spring Data
JavaScript Frameworks	jQuery
Android Libraries and Tools	Kotlin
Python Libraries and Tools	Matplotlib, NumPy, Pandas, Scikit-learn, Seaborn
Data Analysis and Visualization Technologies	Apache Hive, Apache Pig, Apache Spark, Apache ZooKeeper, AWS Athena, Databricks, ETL, Flume, HBase, Lakehouse, ML, Pandas, Sqoop
Security	AWS Security Groups (3 yr.)
Databases & Management Systems / ORM	Apache Hadoop, Apache Hive, Apache Spark, AWS DynamoDB, AWS Redshift, HDFS, Hibernate, Microsoft SQL Server, OpenSearch, Oracle Database, PostgreSQL, Redis, Snowflake, SQL
	CSS, HTML, jQuery, Primefaces, XHTML

UI Frameworks, Libraries, and Browsers	
Cloud Platforms, Services & Computing	AWS
Amazon Web Services	Amazon EMR, Amazon RDS, AWS API Gateway, AWS Athena, AWS Aurora, AWS Bedrock, AWS Cloudformation, AWS CloudWatch, AWS Codebuild, AWS CodeDeploy, AWS CodePipeline, AWS Developer Tools, AWS DynamoDB, AWS EC2, AWS ECR, AWS ECS (Amazon Elastic Container Service), AWS ElastiCache, AWS EMR, AWS Glue, AWS Kinesis, AWS Lambda, AWS Redshift, AWS S3, AWS SageMaker, AWS SageMaker (Amazon SageMaker), AWS Security Groups (3 yr.), AWS Step Functions
Azure Cloud Services	Databricks
Industry Domain Experience	Healthcare
Platforms	Android, IOT
Web/App Servers, Middleware	Apache HTTP Server, WildFly
Tools for Big Data	Apache Iceberg
SDK / API and Integrations	API, Api Gateway, AWS API Gateway, RESTful API
Deployment, CI/CD & Administration	AWS Codebuild, CI/CD
Scripting and Command Line Interfaces	CLI
Version Control	Git, GitLab
Methodologies, Paradigms and Patterns	IaC, Scrum
Collaboration, Task & Issue Tracking	Jira, Slack
Project Management & Administration	SMART
Virtualization, Containers and Orchestration	Terraform

WORK EXPERIENCE

Senior Solutions Architect, BRLink (AWS Data and AI Solutions Architecture and GenAI Implementation)

Duration: April 2025 - Present

Summary: Design and delivery of scalable, secure, and cost-efficient AWS architectures for data migration, data lakes/lakehouse, analytics, chatbots, AI/GenAI, and machine learning. Leading Proofs of Concept (PoCs) from discovery to delivery, focusing on modern data platforms and GenAI solutions using Amazon Bedrock.

Responsibilities:

- Design end-to-end AWS architectures addressing customer needs in data and AI.
- Lead PoCs including requirements workshops, architecture definition, and implementation guidance.
- Define scalable, secure, and cost-efficient reference architectures using a broad AWS service portfolio.
- Build GenAI solutions integrating enterprise data sources with governance and security best practices.
- Establish operational and delivery standards including IAM/security, networking, observability, and automation with IaC.
- Partner with stakeholders to translate use cases into solution roadmaps ensuring measurable business value.

Technologies: Amazon S3, AWS Glue, Amazon Redshift, Amazon Athena, Amazon EMR/Spark, AWS Lake Formation, AWS Step Functions, AWS Lambda, Amazon API Gateway, Amazon DynamoDB, Amazon RDS/Aurora, Amazon OpenSearch Service, Amazon Kinesis, Amazon SageMaker, Amazon Bedrock, Terraform, AWS CloudFormation, Amazon CloudWatch.

Data Engineer, CI&T (Big Data and Machine Learning AWS Architecture and Migration)

Duration: December 2023 - February 2025

Summary: Design and implementation of AWS architecture for Big Data and Machine Learning workloads, including migration of on-premises applications to AWS and DevOps practices to support continuous integration and deployment.

Responsibilities:

- Design and implement AWS architecture for Big Data and ML solutions.
- Migrate on-premises applications to AWS cloud environment.
- Implement DevOps processes on AWS to automate build, test, and deployment.

Technologies: Apache Iceberg, Python, Scala, AWS Redshift, AWS Athena, AWS Kinesis, AWS S3, Amazon SageMaker, AWS Lambda, AWS Step Functions, AWS Glue, AWS CodePipeline, AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy, Scrum, Jira, Slack.

Data Engineer, IBM (Machine Learning Algorithms for Chatbots at ITAU Unibanco)

Duration: July 2022 - December 2023

Summary: Development and maintenance of machine learning algorithms for chatbots at ITAU Unibanco, leveraging AWS cloud services and on-premises Hadoop infrastructure to build and deploy ML pipelines.

Responsibilities:

- Create and maintain machine learning algorithms for chatbots using Python.
- Manage ML pipeline components on AWS including storage, compute, orchestration, and deployment.

- Automate CI/CD processes for ML algorithms using AWS developer tools.

Technologies: Python, AWS S3, AWS Redshift, AWS EC2, Amazon SageMaker, AWS Lambda, AWS Step Functions, AWS Glue, AWS EMR, AWS Kinesis, HDFS, AWS CodePipeline, AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy.

Healthcare Data Engineer, Gistia Healthcare (Cloud Architecture and Data Engineering on AWS)

Duration: February 2020 - May 2022

Summary: A healthcare technology company developing software solutions for healthcare organizations. It provides systems for managing healthcare data, workflows, and digital services. The company works on web-based applications and integrations for healthcare operations. Design and build of cloud architecture and ETL processes on AWS for healthcare data, utilizing a variety of AWS services and Snowflake to support scalable and efficient data processing and analytics.

Responsibilities:

- Design and build cloud architecture on AWS using CloudFormation and CLI APIs.
- Develop ETL processes using Snowflake and AWS data services.
- Manage data storage, processing, and analytics infrastructure to support healthcare data needs.

Technologies: AWS CloudFormation, AWS CLI, JavaScript, Python, Snowflake, AWS S3, AWS EC2, AWS ECS, AWS ECR, AWS Glue, AWS Lambda, AWS Redshift, AWS EMR (Spark), AWS Elasticache for Redis, AWS RDS.

Senior Data Scientist, SEAP - State Department of Penitentiary Administration of Maranhão (Penitentiary Intelligence, Information, and Security System (SIISP 2.0) and Mobile Applications)

Duration: May 2017 - February 2020

Summary: Responsible for database management, data analysis, business modeling, and application development for penitentiary intelligence systems. Designed and deployed Hadoop ecosystem for big data processing and developed web and mobile applications to support penitentiary administration.

Responsibilities:

- Manage databases including Oracle, PostgreSQL, and SQL Server.
- Design and deploy Hadoop cluster ecosystem for large data storage and processing.
- Develop Java web applications using Spring Boot and related technologies.
- Develop mobile applications using Android and Kotlin with RESTful APIs.
- Perform data analysis and machine learning using Python and Spark.

Technologies: HDFS, HBase, Apache Hive, Apache Pig, Apache Zookeeper, Flume, Sqoop, MapReduce, Oracle, PostgreSQL, SQL Server, Python, Spark, scikit-learn, matplotlib, seaborn, pandas, numpy, Java, Spring Boot, Spring Security, Spring Data, JSF, PrimeFaces, PrettyFaces, JPA, Hibernate, XHTML, HTML, CSS, Wildfly, Git, GitLab, Android, Kotlin, FCM, Retrofit 2, RESTful API.

Systems Analyst, SEAP - Penitentiary Administration State Secretary (Penitentiary Intelligence, Information and Security System (SIISP) Web and Mobile Applications)

Duration: April 2016 - April 2017

Summary: Development and evolution of web and mobile systems for penitentiary administration, including task management and service request applications, using a variety of web and mobile technologies.

Responsibilities:

- Develop web tools using CakePHP, XHTML, HTML, CSS, JavaScript, jQuery, and PostgreSQL.
- Develop mobile applications using Android, Kotlin, and Java.
- Develop and use RESTful APIs with Spring Boot and related frameworks.

Technologies: CakePHP, XHTML, HTML, CSS, JavaScript, jQuery, PostgreSQL, Apache, Android, Kotlin, Java, Spring Boot, Spring Security, Spring Data, JPA, Hibernate, Wildfly, Git, GitLab.

EDUCATION

- **Universidade Federal do Maranhão**
  Master's degree in Electrical Engineering, Computer Science area focused on smart city, distributed computing, ubiquitous, and IoT
  2018 - 2020
- **Universidade CEUMA**
  Information System, Computer Science
  2013 - 2016
- **Minds English Schools**
  Inglês, Teaching English as a Second Language
  2015 - 2020

CERTIFICATION

- **AWS Certified Developer – Associate**
- **AWS Certified Solutions Architect – Professional**
- **AWS Certified: Data Engineer – Associate**
- **Databricks Certified Data Engineer Associate**