

A. PALANISAMY
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PROFILE: 6+ years of Experience in Senior AWS Data Engineer with MLOps.

- Overall 13+ years and 6 years of Experience in Design and Development of building Data Lake infrastructure using AWS Glue, API Gateway, Snowflake infrastructure, Data Pipeline and DevOps.
- Experience in building multiple ETL Pipelines using AWS data pipeline with AWS Glue, Cloud9, SNS, SQS, MongoDB, Athena, S3, Kinesis, Lambda, Databricks, VPC, Subnet, RDS and AWS CLI.
- Knowledge with provisioning, configuration management and deployment tools Terraform and CloudFormation.
- Hands-on experience working with VCS platforms Gitlab and GitHub.
- Good knowledge of Database management languages such as MySQL, Oracle, PostgreSQL and MongoDB.
- Experience in Build, train and Deploy Machine learning Models with AWS Sagemaker, and open-source frameworks and libraries (Keras, Tensorflow, Scikit learn) and deployed cloud-based ML/DL offerings in AWS.
- Experience in Python, Shell script and Java script.
- Experience with Data visualization integrations for Tableau and supported BI teams for building various dashboards analytics from Data Lake and ML platform.
- Experience of working in agile delivery model.
- Strong knowledge and expertise in DevOps solution strategy and delivery.
- Experience working on scalable software deployments on Linux environments – CentOS/Ubuntu/RHEL and Windows
- Experience working with management and tracking tools (JIRA, Confluence).
- Collaborating with Data Analysis BI developers, Data Scientist and Software developers to build efficient and scalable data pipelines and systems.
- Performed Exploratory Data Analysis, ETL, Time Series Analysis, Project backup and restore using DevOps.
- Over 7+ years of QA experience in all phase of software life cycle including QA test management, requirement gathering, risk analysis, project planning, testing, defect tracking, management and reporting.

CORE COMPETESCIES

- Cloud platform: Amazon S3, EC2, RDS, VPC, Subnet, Sagemaker, AWS Glue, Gitlab CI/CD, ETL.
- Data Analytic: AWS Athena, Redshift, Snowflake and Data Visualization using Tableau.
- DevOps, Visual Studio Code, SQL workbench, DBeaver, Jupiter NoteBook, Python, PySpark, MySQL, MongoDB, Databricks, Android applications, JavaScript, NodeJS, and Shell script.

WORK EXPERIENCE

Organization	Designation	Duration
Sony India Software Center Pvt. Ltd, -(Payroll Company: Encora Innovation Labs) & Opterna Technologies Pvt.Ltd) – Bangalore.	Team Lead	Feb 2011 to Feb 2023.
Samsung India Electronics Pvt. Ltd – Noida.	Software Engineer	March 2009 to Jan 2011

Project details:

1. Genessym – Data migration from Dell-Boomi to AWS platform.

Working on many data integration modules migration from Dell-Boomi to AWS platform. The main purpose of the activity is Querying the data from Dell-Boomi to AWS.

- Involved Project architectural planning and Project deliverables.
- Involved Project planning and complete AWS end-to-end project environment setup.
- Identify the Database based on the relational data base.
- Involved Creating RDS, VPC, Subnet, EC2 instance, Lambda, API gateway and ETL process.
- Writing the Cloudformation template and deployment.
- Configure the PostgreSQL and create the Data tables using EC2 instance.
- Migrating data from Boomi to AWS platform.

Project details (Sony India Software Centre Pvt. Ltd.)

2. SIFW – Data Lake platform.

Sony built data lakes on Amazon Web Services (AWS) to help modernize all its downstream applications. AWS services had helped

the company focus more on building advanced use cases and, at the same time, “extensively” enhance customer experience, among other business outcomes.

Roles and Responsibilities:

- Involved Data Lake design and developing AWS Glue jobs to fetch the data from SONY datacentre to S3.
- Involved automating CICD code pipeline for creating AWS Glue jobs with CloudFormation templet. Fetching data using snowflake for analysis.
- Performed Data Modelling, data Cleansing of Sony stock market data and products. Involved Infrastructure implementation using Terraform.
- Performed Data analytics using PySpark and Python libraries such as NumPy, Pandas, Matplotlib, SciPy and Scikit learn.
- Worked for Time series Analysis.
- Extracting data from multiple sources and performed Data Profiling.
- Performed Visualizing the data using Tableau.
- Developed project plans and conducted weekly status review meetings with all business groups Analyzed status reports on weekly basis with the project team.
- Interact with Business Analyst and stockholders for visualizing the result.

3. SIFW - AI based MLOps

MLOps GUI tool to facilitate Edge AI algorithm development. It covers EDGE AI project stages from Data preparation, augmentation, training and deployment. It makes easy for training and testing of deep learning model and deployment on hardware for different use case. App uses Tensorflow framework, AWS sagemaker and Python.

Roles and Responsibilities:

- Performed SIFW MLOps Model CI/CD pipeline automation in AWS environment.
- Performed the training the Machine learning models (Object Detection, Image classification, Image Anomaly detection, Crowd counting, Image Semantic segmentation, and Human flow)
- Training the model and Export the Inference code to different Targets.
- Tested AI based targets – IMX500, SPRESENSEC, Raspberrypi, Arduino).
- Established the testing process, defect reporting methodology, techniques and tools to support testing effort.
- Deployment the Deep learning models to AWS cloud using S3 bucket, EC2 and Elastic Beanstalk and CI CD pipeline setup and DevOps process.
- Coordinated the team to resolve defects of all components of the application.
- Executed MLOps exported ML inference code test using Edge AI Devices (SPRESENSEC, IMX500, Raspberrypi and Arduino).

4. Protex and Android Application Testing using XPeria Devices.

- Performed Jenkins jobs creation and add , delete the users/targets from the list in staging and production server.
- Configure the Project execution using jenkins downstream and upstream jobs.
- Performed Android CTS execution, X-alert Security, Bluetooth and LEFA test.
- Performed "**NFC one-touch** BT pairing & connection to audio device" test features using different MDR devices. Tested A2DP, SPP, AVRCP profiles.
- Performed Automation and Manual Testing(Functional, Regression, Load test).
- Involved preparing Test plan, Test report and Defect Report.
- Performed Static code Analysis and Web based application testing.

Project details (Samsung Electronics, Noida) –

Vodafone 360 H1, Vodafone 360 M1 [Samsung Smartphone]

- Validate the Samsung H1, M1 Vodafone 360 Smartphone Now+ services and Streaming content.
- Experience in testing of Bluetooth SIG profiles functionalities and Wi-Fi wireless applications including Development of test cases.
- Validate the Bluetooth, DRM, Vodafone Music shop, MMS, Streaming, Video Calls, Sync ML using Samsung New PC Studio and WAP Push messages.
- Validate the Uplink/Downlink data using UMTS and HSPA networks through Mobile Broadband and Log analysis.
- Test planning, creating 2G, 3G & HSDPA N/W test cases and Executing test cases using Samsung 3G and Vodafone 3.5G network SIM.
- Involved in Sanity testing, System testing, Regression testing, Performance, Load, Stress testing, IOT and Field Testing.
- Validation of Vodafone Operator testing and Field testing.

Travel Information	
Country	Project
South Korea	N-Project

Academic Background

M.S. Information Technology, in Nehru Memorial College [Bharathidasan University], Trichy.

B.Sc Computer Science, in Nehru Memorial College [Bharathidasan University], Trichy.