**Britto Frangklin Arul Francis** [**brittofrangklin@gmail.com**](mailto:brittofrangklin@gmail.com)

### Profile Summary

A talented and dedicated Senior Project Engineer with diverse expertise in Cloud Solutions, Enterprise Data Engineering & Analytics. An enthusiastic learner of niche technologies like AWS, Hadoop, Apache Spark etc. Holding 6.5 years of experience in requirement gathering, designing, modeling, code development and testing and production deployment of enterprise level cloud, web & data-processing applications in Agile Scrum & Kanban.

### Certifications



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| **IBM Certified Application AWS Certified Developer Associate Big Data Hadoop and Spark Developer Microsoft Professional** | |
| **Developer Azure Solutions** |  |

### Professional Synopsis

* Business process re-engineering and skilled in ETL Programming, Requirements Analysis, Agile Methodologies

[Scrum, Kanban, Scrumban], Xtreme Programming, Scaled Agile framework and Cloud computing services.

* Product design and development in Web based solutions for Project Management.
* Strong communication & collaboration soft skills acquired through daily interaction with US Clients.
* Domain knowledge in Retail Banking North America, Basel Regulatory Compliance, Payment & Card Services and Financial Services.
* Hands on experience in designing, developing & testing Cloud Solutions from scratch.
* Experience in Data Engineering, ETL & Data Platform Engineering and excellent scripting skills in UNIX Shell and Python Scripting.

### Work Experience Summary

* Senior Project Engineer at Wipro Technologies, Bangalore – Specialized in Cloud Solutions, Data Engineering,

Big Data, ETL, Analytics & Information Management.

### Work Experience

* Developer - Data Integration & Information Mgmt. – Banking & Finance – till Aug 2013
* Senior Developer - DWH & Big Data Analytics – Cards & Payments – till Dec 2015
* Senior Project Engineer - Cloud Solutions & Data Platform Eng.– Frauds and Disputes – till Feb 2017
* Technical Lead - Big Data Analytics & Cloud Solutions - Customer Data Innovation – till date

### Technical Skills

* Cloud Technologies : Amazon Web Services (AWS), IBM Blue mix
* Programming Languages : Linux, Java(Basics), SQL
* Web Technologies : HTML/CSS, JavaScript, Angular 2
* Big data & Analytics : Hadoop Ecosystem, Apache Spark, Hive, Pig, Kafka
* ETL Tools : AbInitio ETL, SnapLogic SaaS, Apache Ni-Fi
* Scripting Languages : Unix Shell Scripting, Python Scripting
* Platform : Linux/Unix, Windows
* Version control system : Github, EME
* DevOps & Automation : Maven, Jenkins, StarGate
* Databases : Teradata, DB2, Oracle, PostgreSQL, Snowflake
* IDEs : AbInitio GDE, Eclipse, Scala IDE, Teradata SQL Assistant, SQL Workbench
* SDLC Methodologies : Waterfall, Agile [Scrum, Kanban, Scrumban]

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### Professional Experience

**Project – 1**

Project Name : **Snow Flake Database Migration**

Number of team members : 8

Role : Lead – L1

Key Skills/Tools used : Kafka Connect, Spark Scala, Docker, Shell, AWS Cloud

Client : Capital One US – Auto Finance: Innovation Team

Duration : January 2018 – Till Date

**Project Description**

This project describes about the database migration from Oracle to Snowflake Warehouse. As a start, Kafka Connect Platform is used to continuously poll the Oracle databases at configurable intervals and push those changes to Kafka Topic. The source Kafka Connect should be running continuously on the Sink side, each data topic is read from Kafka cluster and a file is created on the AWS S3 in a specific bucket. Once the Avro files got created in S3, datasets will be propagated to Absolute Data Quality (ADQ) which will perform data quality on the individual source datasets. Through by native spark based application which will execute in cluster mode by a simple wrapper script that copies S3 files for a specific source system to Centralized Dev VPC in Snowflake staging bucket for LOB. Upon successful completion of the copy, the staging table in snowflake is loaded into a variant table. The next step is to load the main table from staging table.

**Job responsibilities**

* Perform code reviews and mentor Junior developers
* Lead technical reviews to ensure quality parameters are being met.
* Understand detailed area to provide a solution in complex problem domain.
* Deliver engaging, informative and well-organized presentations.
* Review work of the development team and maintain relevant metrics of the same.
* Keep the development team well informed of changes within the organization and general corporate news.
* Create new filter designs as necessary to meet changing needs.
* Define high-level functional requirements using established processes.
* Troubleshoot and identify bugs in existing software, design and release fixes.
* Collaborate with project team members throughout the entire software development life cycle, in understanding customer needs and creation of product requirement.

**Project – 2**

Project Name : **CHIPS - Cloud Application development**

Number of team members : 4

Role : Senior Project Engineer – L3

Key Skills/Tools used : Snap Logic ETL, AWS Lambda, S3, Redshift Cluster, Jenkins

Client : Capital One US – Enterprise Data Services: Frauds and Disputes

Duration : November 2016 – December 2017

**Project Description**

The CHIPS program is initiated for migration from the current Chordiant Fraud and Dispute case management system to the Pega Smart Dispute product. CHIPS will be new platform hosted in the AWS cloud and will be setup with Tomcat as the application server and Postgre SQL as the database.

This program requires infrastructure to be built that will impact systems such as CHIPS (the new Pega Smart Dispute being used), Chordiant, RTM/eAPI, IFM, COS, CDW, DDE, EFIT Inbound and EFIT Outbound Letters, VROL, MasterCom etc. CHIPS extracts files to Private S3 and Lambda function monitors for presence of new files.

Once a file lands, Lambda triggers ETL processing in Snap Logic and Snap Logic flattens XML to CSV, strips NPI, API, PCI, etc. and lands in Public S3. Snap Logic also loads target table in Redshift for end user analytics.

**Job responsibilities**

* Develop and execute the project with multiple project engineers within the region including consultants.
* Ensure accurate and timely reporting standards are maintained throughout the project.
* Coordinate and communicate projects group as needed on major projects in the Region.
* Establish the working relationship with operations management needed to facilitate the coordination and execution of project work, such that the operational impact is minimized.
* Participate in and lead risk assessments and actively manage the risks of the projects and the business.
* Prepare and submit reports on the progress and status of the project and assist with project systems and documentation.
* Maintain effective and on-going communications with construction and contractor management teams
* Perform other project engineering and project management related duties.

**Project – 3**

Project Name : **Data Lake Ingestion – Fill the Lake**

Number of team members : 7

Role : Senior Developer – L3

Key Skills/Tools used : Shell, Hadoop Core - HDFS, Hadoop Utilities - Hive, Hue, Pig

Client : Capital One US – Enterprise Data Services: Customer Data Innovation

Duration : May 2016 – October 2016

**Project Description**

Data Lake is the production environment of Hadoop/ Data in the lake is Read only and it will be classified by progression (3 categories in lake - Raw, validated and refined). Raw data - Newly introduced data which has not been split into usable divisions- Use and access of raw data is restricted to limited exploratory use. Validated data - Data quality and ready for use. Refined data - Merges validated data to create new data elements - Ready for use. Overall this process describes the data migration between legacy servers to Hadoop servers.

**Job responsibilities**

* Hadoop development and implementation and loading from disparate data sets.
* Pre-processing using Hive and Pig.
* Designing, building, installing, configuring and supporting Hadoop.
* Translate complex functional and technical requirements into detailed design.
* Perform analysis of vast data stores and uncover insights and maintain security and data privacy.
* High-speed querying and managing and deploying HBase.
* Being a part of a POC effort to help build new Hadoop clusters.

**Project – 4**

Project Name : **Secured Cards – Loss of grace analytics**

Number of team members : 4

Role : Senior Developer – L3

Key Skills/Tools used : AbInitio ETL, UNIX Shell Scripting, AmazonS3, Teradata

Client : Capital One US – Enterprise Data Services: Marketing analytics

Duration : November 2015 to April 2016

**Project Description**

As part of this project the customer data as well transaction, statement and billing operational data is analyzed and loaded to Card Data warehouse( Teradata), to identify the pool of customers who did not pay the credit amount or minimum due during the extended time period called grace period. Such customers are lost some perks & eligibility for specific offers in future and also their credit history will be updated with delinquency.

**Job responsibilities**

* Working with Business Owners and BSAs for requirement gathering.
* Design of the application/process & documentation.
* Creation & optimization of databases objects and SQL queries.
* Creation of AbInitio graphs, UNIX shell scripts, Psets, Teradata SQL.
* Unit Test and documentation and Code promotion/migration to QA region.
* Providing Knowledge Transfer to Level 3 & downstream teams.
* Deployment of code to Production environment, Monitoring of prod run till warranty period.

**Project – 5**

Project Name : **AMEX Card to Discover Card Conversion**

Number of team members : 10

Role : Senior Developer - L2

Key Skills/Tools used : AbInitio, Shell, Teradata, MVS

Client : Capital One US – Enterprise Data Services: Cards and Payment

Duration : January 2014 to October 2015

**Project Description**

This project is intended at converting the card vendor from American Express to Discover for some of the existing card types. As part of this change, there are many changes happened in the authentication as well capturing the transaction statement history and billing information in ODS (DB2) as well as CDW (Teradata). Many existing ETL flows are affected and enhanced.

**Job responsibilities**

* Developed, tested and implemented Ab Initio ETL graphs and Ab Initio custom components.
* Accomplished several projects using Multi load, Fast load, T-Pump procedures.
* Developed graphs for batch processing, Shell scripts for multiple purposes.
* Prepared SQL scripts for extraction of data.
* Working with Business Owners and BSAs for requirement gathering.
* Creation & optimization of databases objects and SQL queries.

**Project – 6**

Project Name : Customer Data Innovation - Account Combination

Number of team members : 4

Role : Developer – L2

Key Skills/Tools used : AbInitio, UNIX, EME, Teradata, DB2

Client : Capital One US – Enterprise Data Services: Acquisitions & Customer Pooling

Duration : November 2013 to December 2014

**Project Description**

Account Combination – Capital One US Project, which enables a Capital One customer to have a combined account, instead of having multiple accounts with different features and service. The account combination feature is based on an internal Decisioning systems like Blaze, which looks for eligibility based on different criteria and performs the combination once eligibility is finalized. This process involves from reading customer data through WWW (online), and tracking the data through the ODS, pulling the data to the Data Lake and finally loading the necessary combination data to the Card Data Warehouse tables.

**Job responsibilities**

• Working with Business Owners and BSAs for requirement gathering.

• Design of the application/process & documentation.

• Creation & optimization of databases objects and SQL queries.

• Development of ETL graphs, batch jobs, load scripts, wrapper scripts, parameter sets, UT and documentation.

• Code promotion/migration to QA region.

• Providing Knowledge Transfer to Level 3 & downstream teams.

• Deployment of code to Production environment, Monitoring of prod run till warranty period.

**Project – 7**

Project Name : **Tokenization – TGE Service**

Number of team members : 3

Role : Developer – L1

Key Skills/Tools used : AbInitio, Shell

Client : Capital One US – Enterprise Data Services: Cards and Payment

Duration : July 2012 -October 2013

**Project Description**

The TGE batch Service has the ability to distinguish between Tokenization requests & DE tokenization requests. The TGE batch service has the ability to process ASCII & EBCDIC data files, for Tokenization & DE tokenization. The TGE batch service has the ability to read the following file types - Files without Header / Trailer information, Files with Header / Trailer information with patterns.

**Job responsibilities:**

* Pair with other developers and learn the software development process and life cycle of a feature request
* Continue to learn and hone skills as software engineer
* Focus on depth of knowledge and expertise in a certain language, tool set and area of the stack
* Raise questions and clarify any ambiguity the junior developer has with an idea or process
* Hunt and fix bugs
* Evaluate, assess and recommend software solutions
* Design and model solutions that fit the problem domain

### Achievements

* **Thanks A Billion** by Client for building a generic graphs and metric reports for tracing the patterns of competition, strategic orientations, and the differential risk/return profiles associated with various business strategies in the banking industry
* **You Made a Difference** for my outstanding performance and exceptional commitment to the Enterprise Data Services (EDS) Card Fraud/Disputes
* **Inspiring Performance** for extraordinary commitment on the work and for going beyond deliverables by taking up extra work assigned.
* **Tech Xcellence Award** by Domain Authorities for consecutive successful major rollouts in ETL and Hadoop Cloud platforms
* **Best Re-Use of a Technology** by Stakeholders for invoking the existing Hadoop process into New Cloud Based solution in SnapLogic ETL tool
* **Instant Karma** by Team Architect for Leading Innovation team with complete ownership, extremely good communication skills with right balance of technology.

### Value Adds

* Generic file Converter -EBCDIC TO ASCII and vice versa using Ab Initio PDL Programming
* Periodic publishing of Code Checker/Data Lineage Tool with problems and solution
* Web Applications for Project management
* Avro to Flat file Conversion Framework for History data [ More than TB]
* Automation framework for pull history data from Oracle to S3 for n # of tables parallely

### Proof Of Concepts

* Fill The Lake process through DOCS Framework
* EC2 Data push from S3 Bucket to Red Shift Cluster
* XML Source processing by SnapLogic
* Data Streaming to S3 bucket and load the same data to Redshift cluster by Apache Ni-Fi
* Data Processing in Symphony Framework
* Created a Chat Bot, An Angular Application for Production Support

### Education

* Master of Technology in Software Engineering – BITS Pilani, Rajasthan - 2016
* Bachelor of Computer Technology – Anna University, Coimbatore - 2012

### Declaration

I hereby declare that the information given above is correct to the best of my knowledge. I will be happy to furnish more details, related documents, certificates and references if necessary.

Date: 7th Feb 2019. **Britto Frangklin Arul Francis**

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