

## Varun Bhanot



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### Work Experience

**Deloitte USI – Cloud Consultant      Duration (April 2021 - Present)**

**Below are the projects I have worked for at Deloitte:-**

#### **Amazon Inc:-**

- Amazon is launching **Kuiper** which is amazon's internet service all over the world.
- As a part of this project the task was to help amazon **capture the market data** of various countries namely US, Australia, South Africa and Argentina.
- The market data consisted of various metrics like the type of **internet provider per city basis, income of people , speed of internet per city basis aggregated to a country level.**
- **The strategy team provided us the dataset sources.** that were to be used for the project.
- **Created a data pipeline** which consisted of **kinesis firehose, Lambda** which **picked real time data** from the dataset sources, **aws glue jobs to process data** and **store it in a data lake( combination of s3 and redshift)** which was further used for **visualizations with the help of aws quicksight.**
- This **data was loaded to S3 raw bucket** which was **crawled by glue crawlers** and loaded to **s3 refined bucket** where the **data was cleaned using the glue jobs.**
- From the s3 refined bucket the glue jobs further joined the necessary columns of the datasets and **loaded one unified data into s3 curated bucket.**
- From s3 curated bucket the glue jobs further **loaded the unified data to redshift** which was connected to **quicksight**
- The **quicksight dashboard helped the deloitte strategy and the amazon team to visualize the data** and identify the market metrics and come up with optimal strategy to launch their product.

#### **Travelers Insurance Replication Project:-**

- **Travelers Insurance is a leading insurance company in the US** which provides business insurance and personal insurances.
- As a part of this project **migrated data from on premise to cloud.**
- Travelers on premise data was on sources like **teradata, oracle** and hence created a **data pipeline** which helped migrate this data to **snowflake, snowflake is a fully managed rdbms service in the cloud.**
- The history data since the beginning of time was to be put into a **s3 bucket.**
- Two pipelines for each type of on premise data source were created. **One loaded the data to snowflake and the other dumped the history or the not so frequently used data to S3 bucket.**
- **These pipelines were created using the talend ETL tool** and the logs of these jobs were captured in the **mongoDb database.**

#### **Other Contributions:-**

##### **Audit And Balancing Control Framework (ABC):-**

- **ABC Framework is a proprietary service of deloitte** which it provides to its clients.
- This service helps clients capture the important data like ( **job start time, execution id, job end time, SLA met or not and other metrics**).
- **Created a data model** of 5 tables which collected data at a job level, batch level( more than one job for a single batch) and at a line of business level (LOB). **These 5 tables were created in snowflake.**

- Create this framework for the travelers replication project.
- **Separate joblet was created**( reusable job) which was integrated with the various data pipelines which captured metrics for that pipeline.
- For a particular data pipeline, **the abc joblet was integrated at various levels( start of the parent job, child job and at the end of the parent job)**. This helped clients to get a near real time scenario of the metrics being captured.
- **These metrics were loaded onto the 5 tables in snowflake** and further **made available on a dashboard on qlik sense**. This dashboard was made available to the client, which made data visualization interactive and easy.

#### Accenture – Software Development Analyst (Data Engineer)      Duration (Feb 2018 – March-2021)

- Working for a renowned U.S insurance client.
- Performed **extract, transform and load operations** on the loss datamart on a daily and monthly basis.
- Performed **OLAP operations to segregate this historical data** which was fed to the business applications.
- The loss data mart maintained the **losses incurred by the client every month** against a particular claim.
- **Ensured referential integrity** of the mart tables i.e **all changes reflected in the warehouse are captured in the mart at all points of time**.
- Maintained the **daily version** of mart as **SCD-1 type** and **monthly version** of mart as **SCD-2 Type**.
- Maintained the monthly **SCD-2 Type** via the **Change data capture (CDC) process**.
- **Created data pipelines** which helped source data from other warehouses.
- **Executed and monitored** ETL jobs via **Autosys Platform**.
- **Self-managed time and task** priorities of other developers on the project.
- Conducted **performance tuning, support and capacity estimation**.
- Worked right from **gathering requirements** to laying out **design and finally implementing the user-story**.
- **Created and maintained Audit Reports** which contained test case **information of the user- stories every quarter**.
- Have good amount of experience in **data profiling** where in we write **sql queries to filter out the impacted data** into a table which is further used for development and testing.
- The primary tool for this process is **Ab-initio and Teradata** and the tables are maintained in **Teradata Database**.
- Worked on technologies like **AWS ( integrated lambda with API gateway , read and write from dynamo DB, uploaded function to lambda using CLI, S3)**.
- Automated business process targeted towards reducing manual work.

#### Automation Projects in Office :-

##### Vacation Tracker(email notification):-

Accenture regularly collates the future vacations of the resources and send it to the supervisor for approval.

**Automated the email sending part via python** for this. Since it was a repetitive task, the script automatically sent an email with the excel that contained the vacation details.

##### Sql Query Automation :-

This automation was for the client which **helped them run repetitive validation queries quickly via a sql macro**.

##### Business Rule Engine(BRE automation- SQL) :-

Processed BRE every quarter which helped the business to arrive to at a figure required to pay off all their insurers at the same time (incase of a natural calamity or other factors).

**Automated the teradata part of this process** wherein the mart tables **automatically get backdated** to a specific date via **Bteq script**.

**\*\* Backdating means to remove all rows from the tables after a particular date** (usually done when the requirement is to run the code for a specific point of time)

#### Technology Uncorked – Marketing Intern

Duration(Feb 2018 – June 2018)

**Description:** Devised and executed strategies that promoted the company on the digital platform. Some of the tasks which i successfully achieved were :

1. **Created a loyalty program** for the company's e-commerce platform.
2. **Created product bundles** - Combination of products available at a cheaper price
3. **Launched marketing campaigns** on crunchbase and quora.
4. **Managed the twitter and facebook** handle of the company

## Certifications

- AWS Developers Associate (Certified by Amazon)
- Python Data Structures and Algorithms (Certified by Coding Ninjas)
- Mastering AWS Glue,Quicksight,Athena And Redshift Spectrum (Udemy)

## My Tech Stack

- ETL ( Ab-initio,Talend), AWS Glue, Snowflake, SQL ( Teradata), MongoDB, Autosys , Data Profiling, Unix Shell Scripting, Data-warehousing , AWS Athena, AWS Quicksight, AWS Redshift Spectrum, GIT, mongoDB

## Personal Projects

### Personal Portfolio(Python and django)

Created my own personal portfolio using python and django framework and deploying the same on the web server.

githublink - <http://tiny.cc/yq9ir>

portfolio link :- <https://bhanotlocker.pythonanywhere.com/home/>

### Password Generator(Python And Django)

Created a website on the localhost which helps users in generating a random password

githublink- <https://github.com/bhanotblocker/password-generator>

## ACADEMIC BACKGROUND

Year(s)	Qualification –Degree / Diploma /Certificate	Board/University	College / Institute	Percentage / CGPA
2013-2017	B.Tech in ECE	DIT,Dehradun	DIT, Dehradun	65.56%
2011	12th	C.B.S.E	New Era Public School , New delhi	85%
2010	10th	C.B.S.E	New Era Public School , New delhi	84.5%

## ACHIEVEMENTS

### **High Performing Software Engineer (05/2019)**

For ensuring most on time deliveries with no supervision.

### **Commitment on Excellence Award(02/2020)**

For automations which reduced man power effort.