

# Chaitanya Boggavarapu

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## SUMMARY

- Proficient Python Programmer with **7+** years of Software Engineering experience in developing robust code for business solutions.
- Collaborating with multiple teams for gathering requirements and solving dependency issues.
- Strong knowledge of Data Structures and Algorithms.
- Developed data pipelines using **Python, AWS, Snowflake and DBT**.
- Designed and developed software applications using **Flaks** and **Django**.
- Experience in using **Airflow** to automate the tasks and put tasks into production quickly.

## EXPERIENCE

### Data Engineer, Mastercard

Feb 2023 - Present

- Developed python Rest APIs using Fast API using async await to read data from backend applications (using Postgress, Elixir)
- Productionize pyspark scripts by creating Dags to run everyday on Airflow, Created Airflow DAGs to productionalize PySpark scripts and created dependencies which run everyday
- Worked with multiple teams for designing and implementing dbt models for analytics and reporting
- Loading data from S3 to Snowflake using AWS Glue and performing transformations using dbt, also performing testing to ensure the accuracy and consistency of the data
- Built AWS infrastructure (EC2, VPC, RDS Postgres, KMS, REDIS, ECS, EKS Cluster, Cloudwatch etc.) using Terraform Iac as code

### Data Engineer, Freddie Mac

Dec 2021 - Feb 2023

- Creating Data pipelines for Ingestion and comparing data from other sources to snowflake using python programming
- Creating DBT snapshots to effectively check loan data over time
- Performed automated ETL process using Airflow dags to trigger glue, dbt, snowflake jobs which resulted in saving an estimated of \$10M
- Worked on PySpark and Spark Streaming for higher-level data-driven extraction and used Spark-SQL with various data sources such as JSONs, Excel, and Text

### Application Engineer, Ivalua

Jul 2020 - Dec 2021

- Developing advanced configuration and show strong technical creativity skills to leverage configuration features in order to limit custom code
- Integrated, transformed, and consolidated data from various structured and unstructured data systems to build analytics solutions in cloud platforms (AWS)
- Performing CRUD operations with SQL. Hands on with SQL profiler to check which queries are causing issues to the application
- Designing, building, and optimizing data pipelines using Airflow to extract, transform, and load data from various sources into Dynano Db. Implementing efficient data movement and orchestration workflows to ensure seamless data integration

### Data Science Enginner, Mind Research Network

Jan 2018 - Jul 2020

- Developing Machine learning algorithms to classify controls and patients (Schizophrenia) using logistic regression with 83% accuracy
- Preprocessed videos for performed transfer learning to separate audio from video
- Developed Desktop application using PyQt5 for comparing Multi-fusion Model resulting in improving performance of the team

### Data Engineer, Wipro Technologies

May 2014 - Dec 2017

- Created **ETL** pipelines with different data sources (SQL Files, Flat Files, Excel source files etc.) and then ingest the data into internal data lake
- Designed and implemented data quality checks to ensure data accuracy and reliability

## EDUCATION

### Master of Science, Computer Engineering

Jan 2018 - Jul 2020

University of New Mexico

GPA: 3.8

## SKILLS

**Programming/ Scripting Languages:** Python, PySpark, Terraform, SQL, C#, ReactJs, Java Script, Matlab

**Databases/ Modeling:** MicrosoftSqlServer, PostgreSQL, DynamoDb, MongoDB, Snowflake / DBT

**Cloud Services:** S3, Redshift, EC2, ECS, EKS, CloudWatch

**Big Data:** AirFlow, Map Reduce, PySpark

**Other Tools/Technologies:** Jupyter Notebook, Docker, Github, Slack, Trello, Kibana, Pycharm, Jira