

Guillermo Casal

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EXPERIENCE

Software Engineer

March 2021 – Present

Tata Consultancy Services

Miami, FL - Remote

- Optimized a vendor data extraction process producing a 30% decrease in execution time through filtering out obsolete jobs based on client needs.
- Provided support for critical ETL production systems on an on-call rotation basis
- Collaborated with business analysts to translate their reporting needs into SQL queries, creating relevant reports and dissecting ongoing issues.
- Developed and tested processes directed toward optimizing ETL data pipeline orchestration (Apache Airflow, Python, S3)
- Maintained and optimized critical data processing jobs (Scala, Apache Spark, EMR)

PROJECTS

COVID-19 Data Analysis | *Scala, Apache Spark*

July 2021 – August 2021

- The objective of the project was to transform raw data to create a reportable dataset for COVID-19 deaths and confirmed cases at county, state and country levels, followed by generating reports at weekly, monthly and quarterly aggregations levels.

BabyFeed Web Application | *Node, Angular, MongoDB, Java, Git*

August 2020 – December 2020

- BabyFeed is an application built to record and evaluate an infants nutrition intake. Nutrition intake data is input through a food frequency questionnaire, which is processed and made available to clinicians and researchers for analysis.
- My team of 5 developers collaborated with a nutrition professor in a series of 2 week sprints utilizing Scrum Agile Methodology for project management and organization.
- Designed and developed the Research component of the application. Which included mass participant account creation for data intake, researcher dashboard displaying participant data and data extraction.

TECHNICAL SKILLS

Languages: Python, SQL, Scala, JavaScript

Frameworks and Libraries: Apache Spark, Apache Airflow, React, Angular, Express, Node.js

Technologies: Unix, Git, AWS

EDUCATION

Florida International University

Miami, FL

Bachelor of Science in Computer Science

December 2020