

SENAL KULARATNE

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EXPERIENCE

Everything But The House (EBTH) | Data Engineer | Cincinnati, OH June 2018 – Present

- Designed the scalable infrastructure required for optimal ETL of data using Airflow, to move data from a variety of data sources to the data warehouse
- Migrated data warehouse from Redshift to Snowflake, which increased querying performance by 30%
- Developed and automated custom Airflow operators and DAGs to read Kafka streams from S3, translate them to Snowflake command files and execute them onto the data warehouse
- Implemented parallel execution of DAGs for batch processing each target table files to improve ETL performance by more than 50%
- Implemented error handling and made the infrastructure idempotent and deterministic to minimize schema mismatch and data loss in case of hardware and network failure
- CI/CD of Airflow DAGs and custom operators via Docker to staging and production environments

Delfinite | Co-founder & Front-End Developer | Cincinnati, OH July 2017 – Oct 2017

- Developed an enterprise-wide solution that leverage Alexa's voice-interaction using Node.js and AWS, to collect customer complaints and store in DynamoDB
- Implemented an automated testing platform to ensure Alexa's voice experience works as expected
- Developed a web application for displaying the collected data using React and D3

TEVA Pharmaceutical | Database Developer | Cincinnati, OH May 2015 – Aug 2015

- Analyzed manufacturing and packaging equipment data to identify and document deficiencies in variety of pharmaceutical drugs in women's health
- Cleaned data from various internal sources to develop a database of all equipment
- Formulated SQL queries to extract and analyze the data to identify and improve the efficiency of packaging equipment speed by 5%

Novel Device Laboratory (NDL) | Research Assistant | Cincinnati, OH Aug 2013 – Dec 2013

- Developed MATLAB programs for transforming CIE XYZ data to plot CIE 1931 space chromaticity diagrams, which was later published in [SID \(Society for Information Display\)](#)
- Researched smart windows, electronic paper technology and display optics for electro-fluidic devices, and analyzed biprimary color system for reflective displays

SKILLS

Programming Languages – Python, JavaScript, Java

Web Development – Node.js (Express), jQuery, React, Redux, Jasmine, HTML5, CSS3, Bootstrap

Database/Data Warehouse – MySQL, PostgreSQL, MongoDB, Redshift, Snowflake

Cloud Services – AWS (EC2, S3), Heroku

Other Technologies – Git, Apache Airflow, Docker, CircleCI, Sketch, Jekyll, DataGrip

Spoken Languages – English, Japanese, Sinhala

EDUCATION

B.S. Computer Science

University of Cincinnati | College of Engineering & Applied Science

GPA: 3.3/4.0

Class of 2017