

Akhila Ananth

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LANGUAGES:

- Python
- JavaScript
- HTML
- CSS

FRAMEWORKS:

- Django
- React

TECHNOLOGIES:

- Docker
- Kubernetes
- Airflow

EDUCATION:

Carleton University

B.Eng. Software Engineering

Minor: Business

Docker Containerization Essentials

MIRANTIS - 39249352

Learnt how to create and manage individual containers using the Docker Engine

Kubernetes Application Essentials

MIRANTIS - 58889257

Introduced Kubernetes container orchestration in the software development life cycle.

Kubernetes Native Application Development

MIRANTIS - 58889282

Learnt how to build containerized applications targeted for enterprise-grade production environments.

EXPERIENCE:

RBC CAPITAL MARKETS

Software Engineer | Jersey City, NJ | 08/2018 - Current

- *Rabacus Finder and Viewer*: a portal to view data in the Data Lake. To give the user a personalized experience, I implemented a feature that allowed them to bookmark and share datasets using React. This attracted more users to the application.
- *Rabacus Studio*: a collaborative reporting platform. Strengthened relationships with client teams by helping them build Rabacus dashboards. I also developed and customized widgets using Javascript, AG Grid and Material UI. This increased end-user satisfaction levels.
- For both *Rabacus Studio* and *Finder*, the user had to type in the domain along with their username on every login. I optimized the login UI by adding a user domain dropdown which improved the product's ease of use.
- Transitioned *Rabacus Studio* from using Docker to using Kubernetes and Docker by creating Persistent Volumes and Helm charts. This improved its scalability, availability, load balancing and ease of use.
- *Reference Data*: a Django REST API that enhances the data streamed from Broadridge with reference data from various sources. I created API views and added a reference data source with lookup keys. This improved the user's experience with the API.
- Delivering *End of Day Contract (EoDC)* files is part of SEC's initiative to reduce settlement time to T+1 from T+2. I mapped and tested multiple source files to *EoDC* files using Python. Used Airflow to create the data pipeline.
- *Data Fabric*: data modeling processes that hydrate data into the Data Lake. I developed a component of this process in Scala. It partitioned data into parquet files and then applied specified transformations using Spark. This was run as a task on an Airflow data pipeline. It made applying transformations to large datasets efficient.

PROJECTS:

COLOR VISION

2017

A meetup group of visually impaired individuals met up every week and in one of their meetups, the issue of shopping for clothes was brought up. I developed an Android application designed to assess the color compatibility of two articles of clothing using principles of color theory. I tested the application with the group, and they really liked it.