#### DATASTAX

DATASTAX

HANDS-ON WORKSHOP

#### > Build a Full-Stack Application with Cassandra and React

JUNE 14TH, WEDNESDAY

8 AM PT | 11 AM EST | 5 PM CET | 8.30 PM IST



#### DATASTAX



Aaron Ploetz
Developer Advocate /
Author

DATASTAX DEVELOPERS





- 3x Cassandra MVP
- Prior DB Engineering Lead @ GRAINGER & TARGET.
- Host Apache Cassandra® Corner podcast
- Worked as an author on:
   Mastering Apache Cassandra 3.x
   Seven NoSQL Databases in a Week

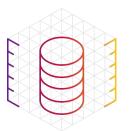




How do we make developing apps on Cassandra easier?

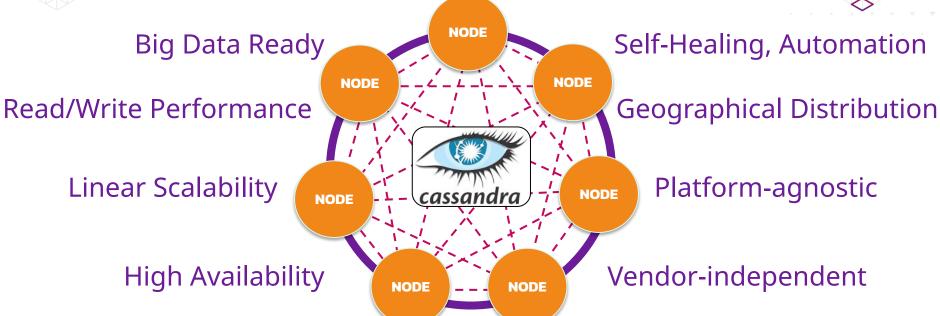
# What is Apache Cassandra?





Apache Cassandra







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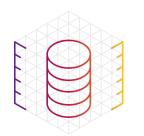
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### What is Astra DB?

 $D\Lambda T\Lambda ST\Lambda X$ 

ASTRA DB



#### > Astra DB

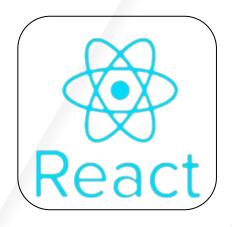


- Cassandra as a Service!
- No operational overhead
- Not cloud vendor bound
- "No touch" scalability





## What are we building?



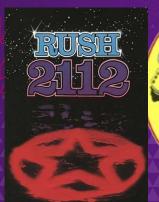


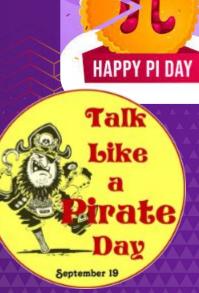


#### Simple React.js app to track Nerd Holidays!

- Nerd Holidays for 2023
- Sorted by date, ASC
- Front end: React.js
- Datastore: Cassandra









#### Required npm dependencies

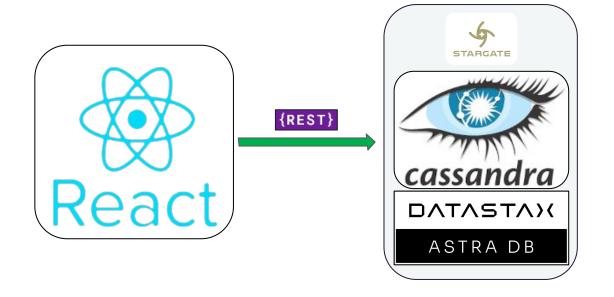
- npm install @emotion/react
- npm install @emotion/styled
- npm install @mui/material
- npm install @mui/x-data-grid
- npm install axios

#### Data Model

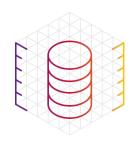
```
CREATE TABLE nerd_holidays (
   year_bucket BIGINT,
   event_date BIGINT,
   id UUID,
   name TEXT,
   PRIMARY KEY ((year_bucket), event_date, id)
) WITH CLUSTERING ORDER BY (event_date ASC, id ASC);
```



#### > Tech stack



# How can we connect using Rest?









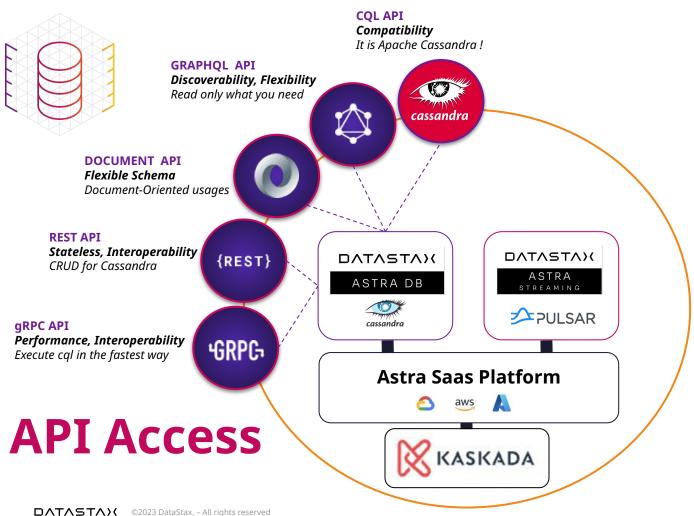








https://github.com/stargate/stargate



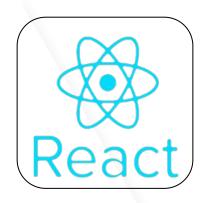


#### > Rest API

/api/rest/swagger-ui/







### Hands on!







#### Simple React.js app to track Nerd Holidays!

GitHub repo:



https://github.com/datastaxdevs/

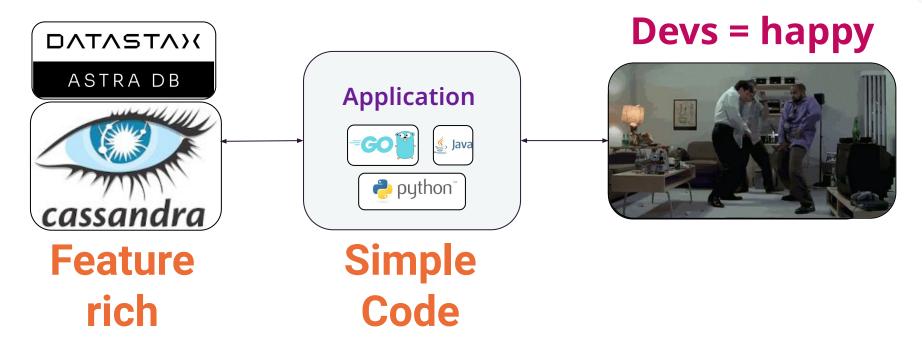
workshop-nerd-holidays







The developer experience we want with Apache Cassandra®



#### **>**

## Additional info

#### **DataStax Developers**

@DataStaxDevs 31.4K subscribers 769 videos



> youtube.com/@DataStaxDevs



) github.com/stargate/stargate



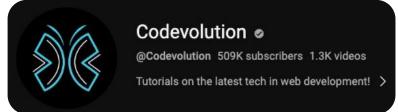


> astra.datastax.com/



> Vishwas on Codevolution: ReactJS Tutorial

youtube.com/@Codevolution





# Need help?









## Thank You