

DATA() { EXPOSED;

DATA EXPOSED SPECIAL

Around the Clock with Azure SQL and Azure Data Factory

Americas

February 3, 2021

09:00 - 17:00 PT

Asia

February 4, 2021

09:00 - 17:00 SGT

16 Sessions | 2 Ask the Expert Panels | 1 Hackathon



HOSTED BY

Wee Hyong Tok & Anna Hoffman

DATA() {
EXPOSED;

Serverless Data Integration with Azure SQL and Azure Data Factory

Davide Mauri



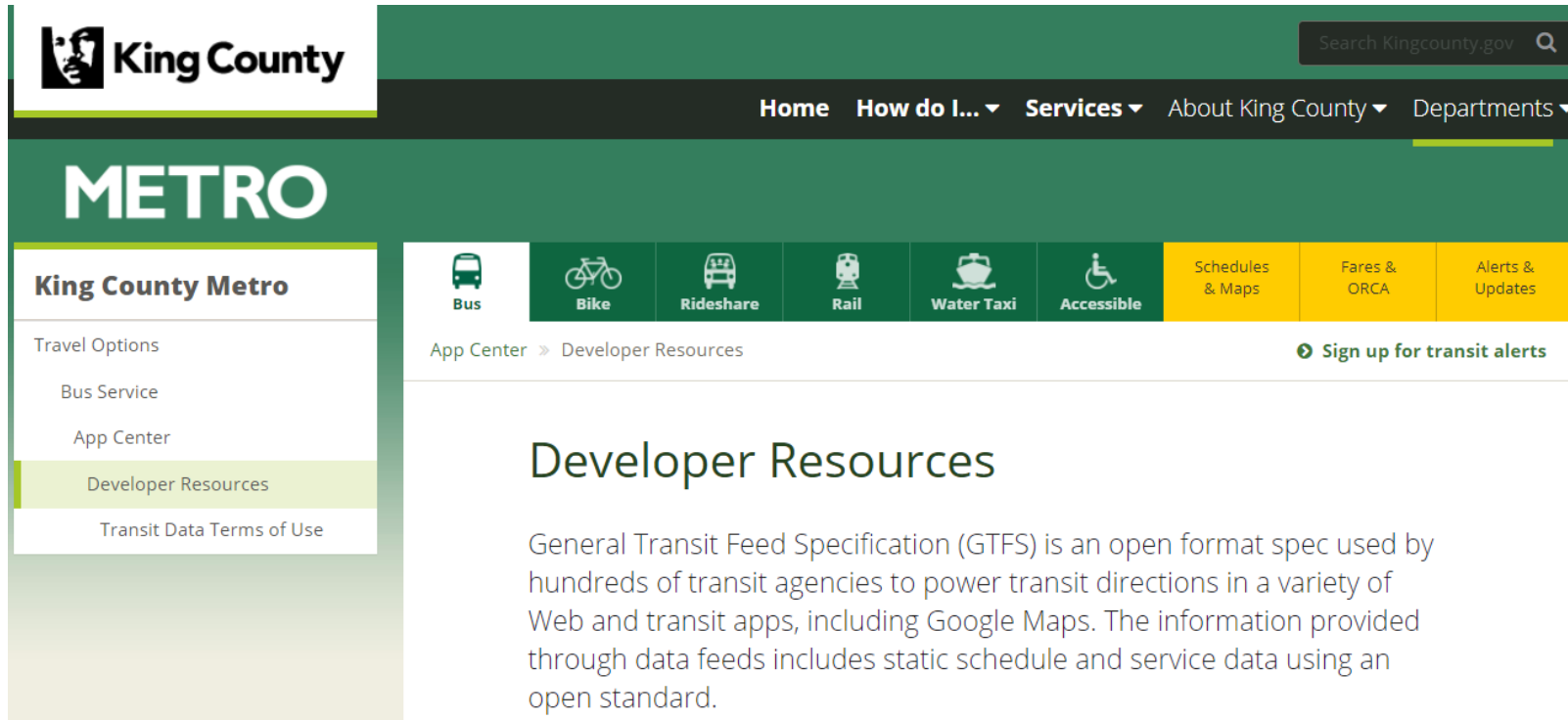
Srini Acharya



Goal: Integrate Public Transportation Data

Sources are:

- Flat File with Route Reference Data
- JSON File in GTFS format with Real-Time Vehicle Positions



<https://kingcounty.gov/depts/transportation/metro/travel-options/bus/app-center/developer-resources.aspx>

Goal: Integrate Public Transportation Data

Destinations:

- Azure SQL Database

id	source_id	route_id	trip_id	vehicle_id	direction_id	latitude	longitude	timestamp_utc	route_short_name
1	1612063957_7060	100001	49790988	7060	0	47.644794	-122.370178	2021-01-31 03:32:01.00000000	1
2	1612063957_7013	100002	49775291	7013	1	47.627906	-122.312569	2021-01-31 03:32:08.00000000	10
3	1612063957_7127	100002	49775254	7127	0	47.619910	-122.320473	2021-01-31 03:31:59.00000000	10
4	1612063957_6883	100003	49785383	6883	1	47.598850	-122.328995	2021-01-31 03:32:08.00000000	101
5	1612063957_8144	100003	49785312	8144	0	47.479670	-122.218788	2021-01-31 03:32:05.00000000	101
6	1612063957_8149	100003	49785374	8149	0	47.608590	-122.337280	2021-01-31 03:31:59.00000000	101
7	1612063957_6826	100003	49785288	6826	1	47.478930	-122.220718	2021-01-31 03:31:52.00000000	101
8	1612063957_3712	100004	49784681	3712	0	47.484207	-122.197334	2021-01-31 03:32:03.00000000	105
9	1612063957_3734	100004	49784680	3734	1	47.481200	-122.205040	2021-01-31 03:31:52.00000000	105
10	1612063957_7012	100005	47418688	7012	0	47.558452	-122.292046	2021-01-31 03:32:13.00000000	106
11	1612063957_7160	100005	47418679	7160	0	47.506300	-122.254478	2021-01-31 03:32:09.00000000	106
12	1612063957_7039	100005	47418678	7039	1	47.563304	-122.294807	2021-01-31 03:32:07.00000000	106
13	1612063957_7032	100005	47418683	7032	1	47.480503	-122.207863	2021-01-31 03:32:01.00000000	106

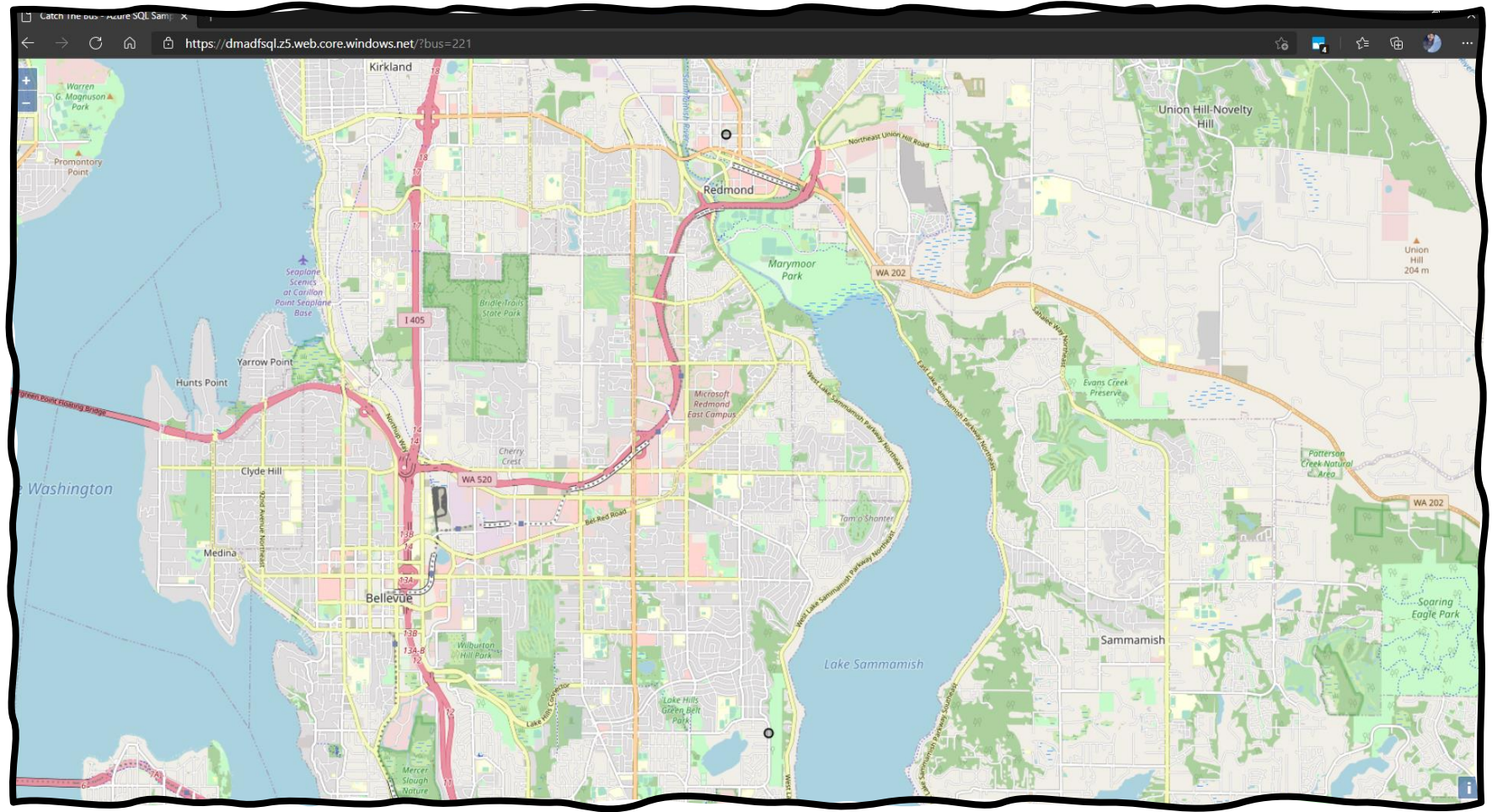
Goal: Integrate Public Transportation Data

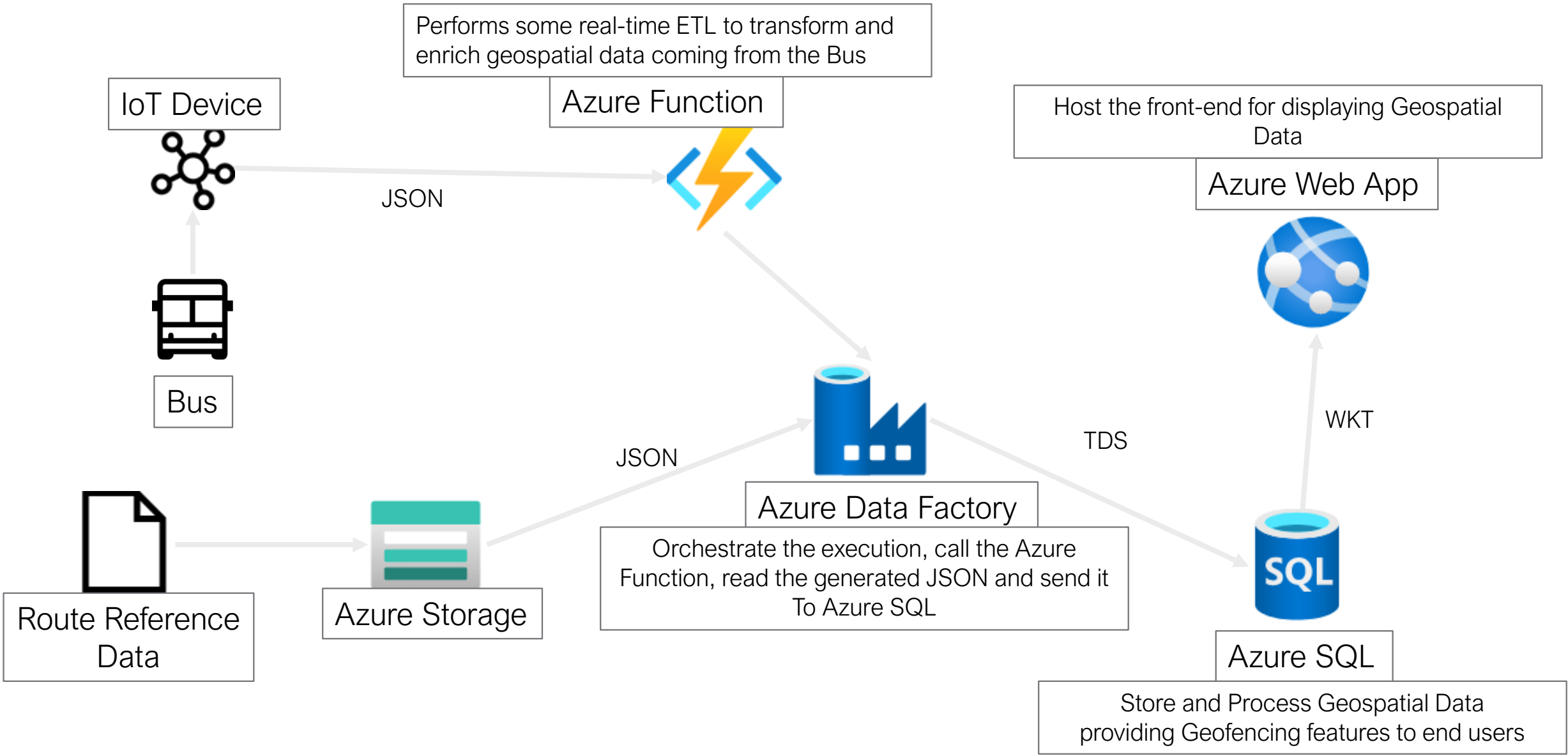
Consumer:

- Web App

Requirements:

- Data must be sent in WKT (Well-Known Text) format





Demo



DATA() {
EXPOSED;

Learn with us!

View our on-demand playlist:
aka.ms/azuresqlandadf

@AzureSQL
@AzDataFactory



