



WEATHERLY

An exercise in Back-End development with
cloud technologies



Hugo De Moraes
:= <He/Him>

About Me

- Rising Junior at Rutgers University studying Computer Science
- Pursuing a career in Full-Stack Software Engineering
- Interested in problems revolving around logistics, transportation, and the overall movement of people
- Out in Tech Graduate!

What I learned



Backend Layer

How to build a simple Express.js web API with database CRUD operations



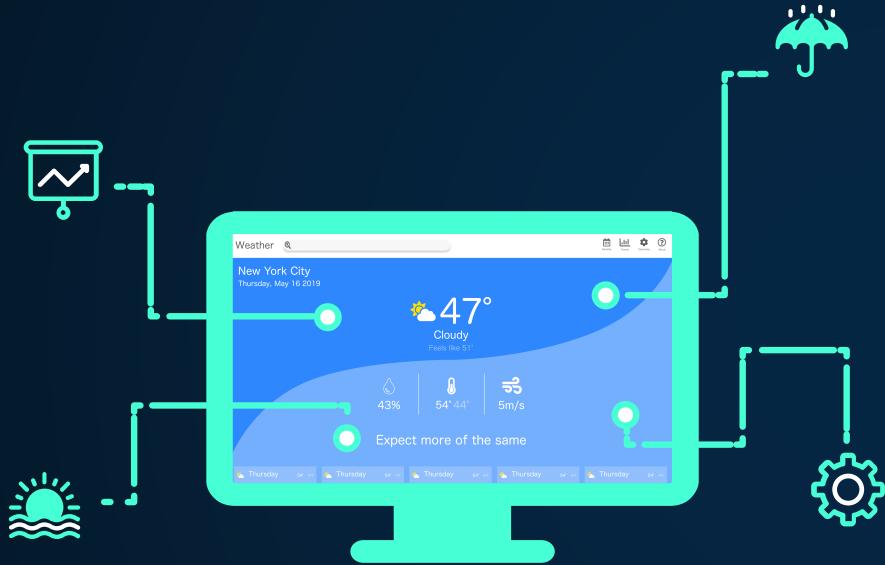
Database Layer

How to implement a PostgreSQL database with CRUD operations



3rd Party Service Layer

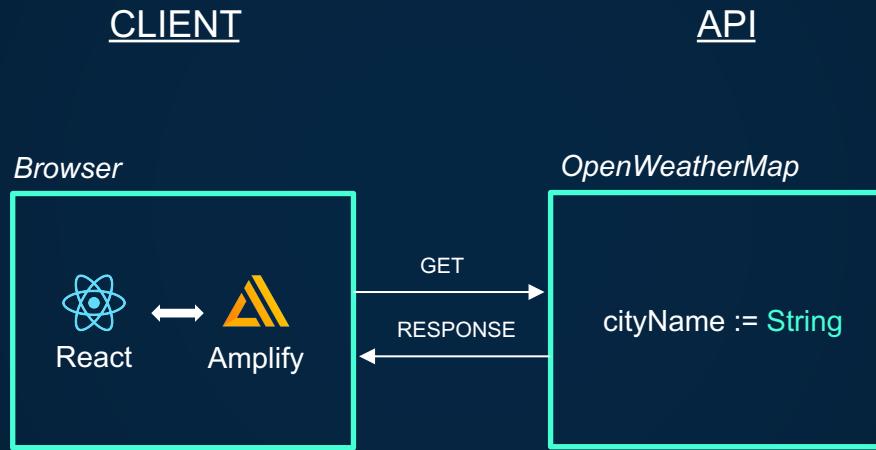
How to leverage AWS to “port” my app logic to a serverless architecture



ABOUT THE PROJECT

- “Weatherly” is a Single-Page React web app
- Originally an excercise in Front-End development with a 3rd Party API, “OpenWeatherApp.”
- As the project’s complexity grew, so did the need for a Back-End web service.

INITIAL ARCHITECTURE



Then



CONSUME AN API



RENDERS COMPONENTS



IT WORKS... SORT OF



Masa- Massachush- Massachue.... ????

Unreliable

People make spelling errors, and that's ok!



Inconsistent

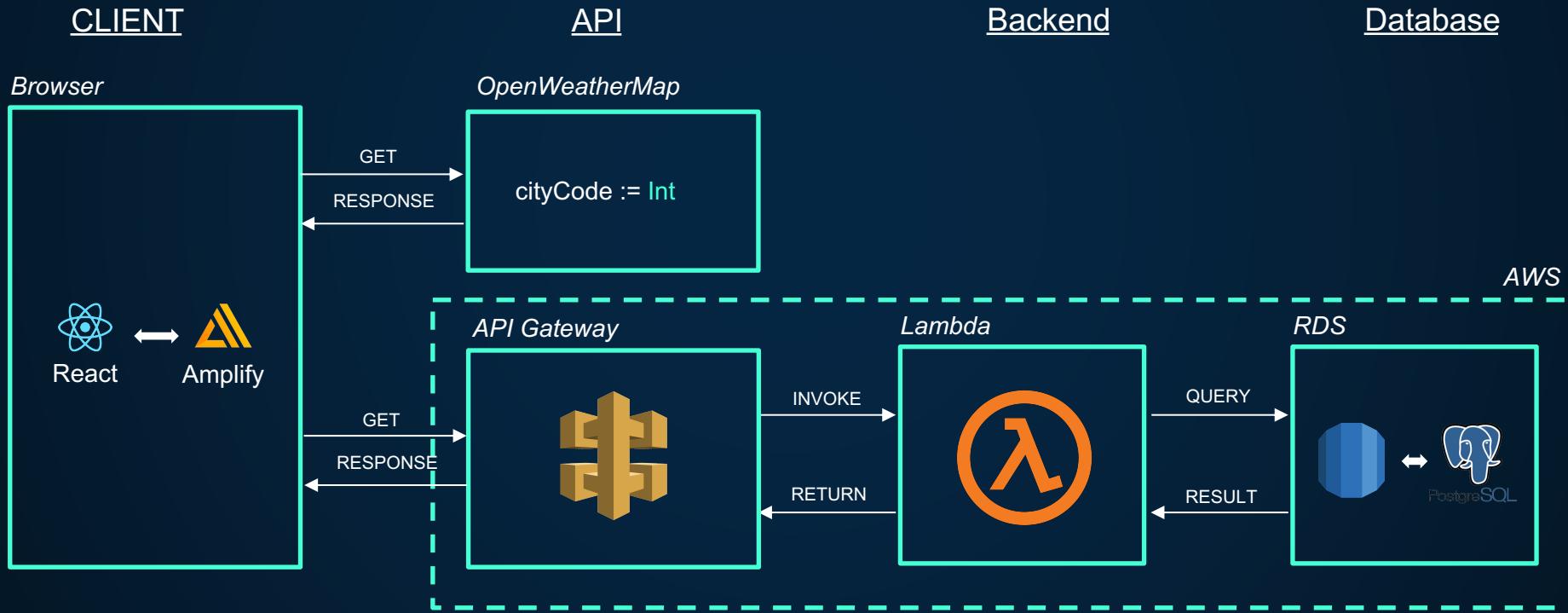
Dataset may not be consistent with user



Poor UX

Overall puts too much responsibility on user

FINAL ARCHITECTURE



Now

Reliable

Eliminates responsibility on user to get it right



Consistent

Inconsistent data is filtered out by Lambda



Improved UX

Changes lend themselves to a better experience

SERVERLESS



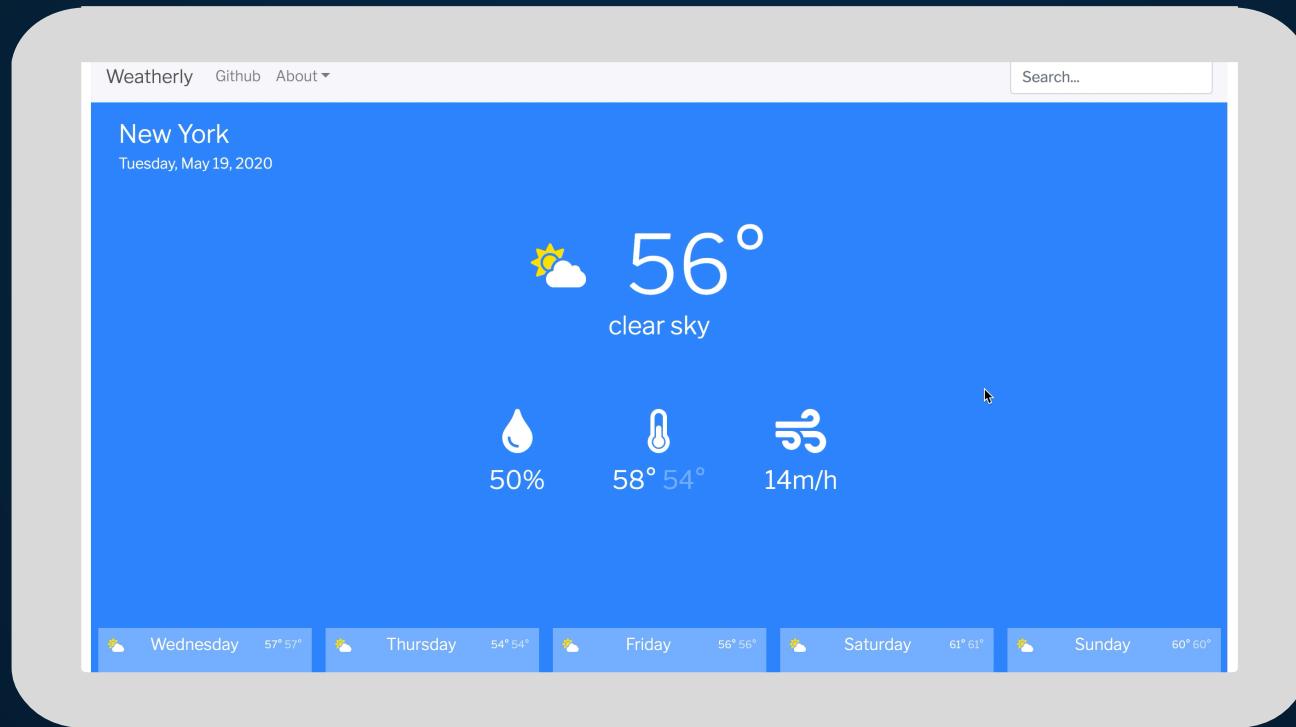
HIGHLY AVAILABLE



HIGHLY SCALABLE



Blink and you'll miss it

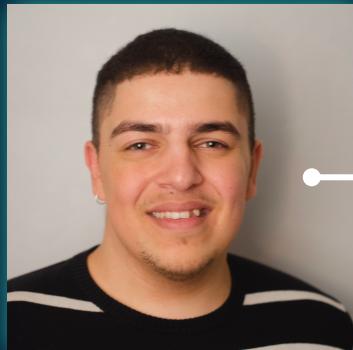


THE TEAM



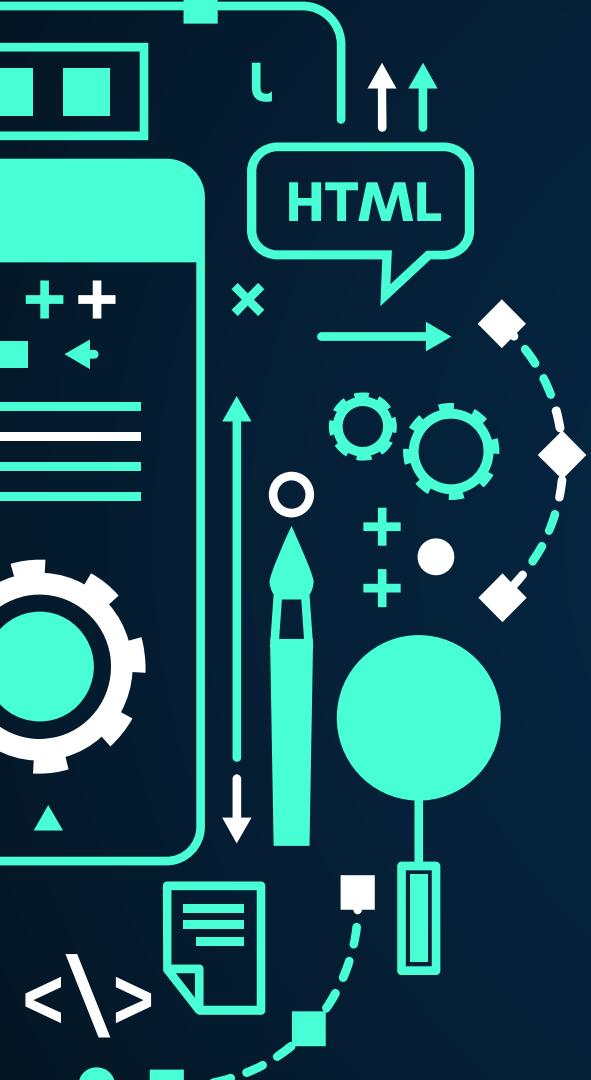
"A Monad is simply a Monoid in the category of Endofunctor"

- KENDRA ELFORD



"Hey Kendra, what's a Monad?"

- HUGO DE MORAES



THANKS!

Let's connect!



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CREDITS

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