

# Tour Visualizer

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Interactive 3D Artist Exploration

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# Problem

- Wanted a way to view an artist tour on a globe
- Existing tools show lists, not interactive environments

# Solution

- A globe based interface
  - Search artist
  - View tour stops
  - Explore Event info
  - See travel patterns

EVENTS • 39 RESULTS

United States

JAN 18 Sun • 7:30 PM ⏱  
Bow Wow  
Detroit, MI • Sound Board at MotorCity Casino Hotel  
— CANCELLED

FEB 14 Sat • 8:00 PM ⏱  
Boys 4 Life Tour  
Birmingham, AL • Legacy Arena at the BJCC

FEB 21 Sat • 8:00 PM ⏱  
Boys 4 Life Tour  
Memphis, TN • FedExForum

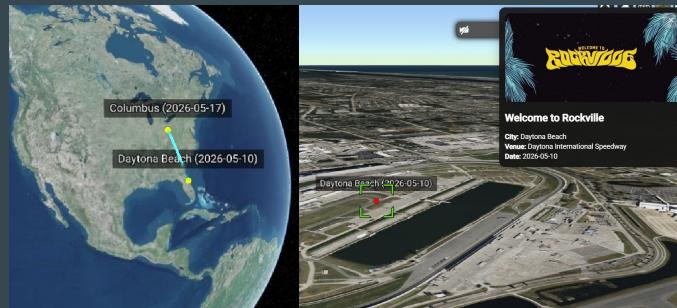
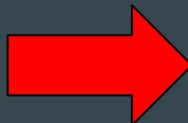
Sort by: Relevance

Event Info >

Find Tickets >

Find My Hotel >

PROMOTED EXCLUSIVE | Ticketmaster now offers hotel deals! Save up to 57% off your stay when you bundle your ticket with a hotel.



# FrontEnd

- AngularJS (Angular 20)
  - Widget component (search & suggestions)
  - Cesium component (display & interaction)
- CesiumJS

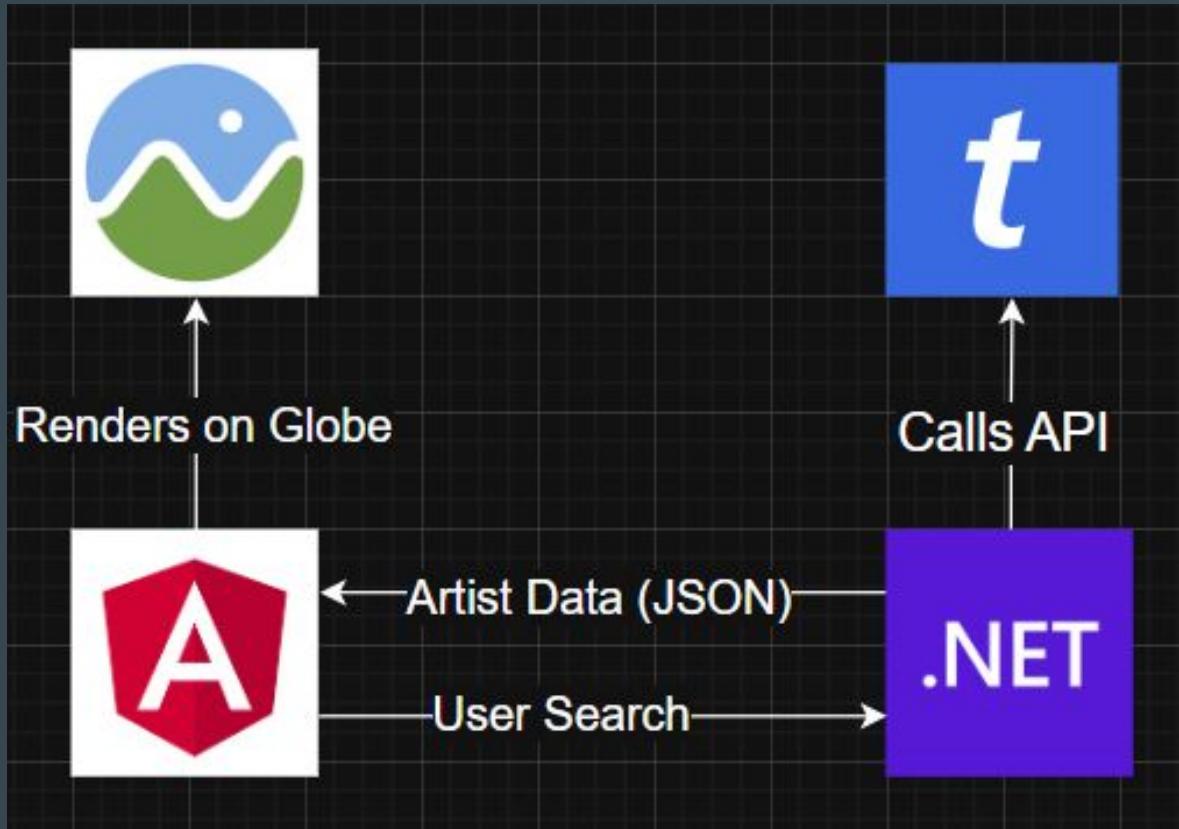


# Backend

- .NET (.NET 8 Web API)
  - /api/events (artist search)
- .NET backend proxies Ticketmaster

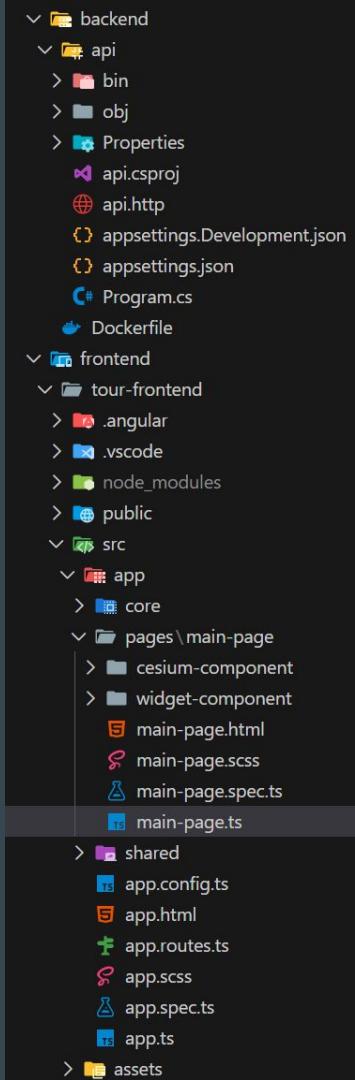


# Architecture Diagram



# Technical Highlights

- Debounced search (no wasted calls)
- .NET backend handles CORS + API proxying
- Clean component structure (Angular 20)
- Efficient map primitive cleanup when swapping between artists
- Custom Cesium material for animated arcs



# Future Improvements



- Connect to ticketmaster ticket purchasing
- Heatmaps or analytics of tour density
- Comparing multiple artists and comparing past tours of same artist.
- Filter by mile range
- Containerizing with Docker
- Web hosting with AWS