

Enjoy the Best Surfing Experience Ever

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# Surfworld

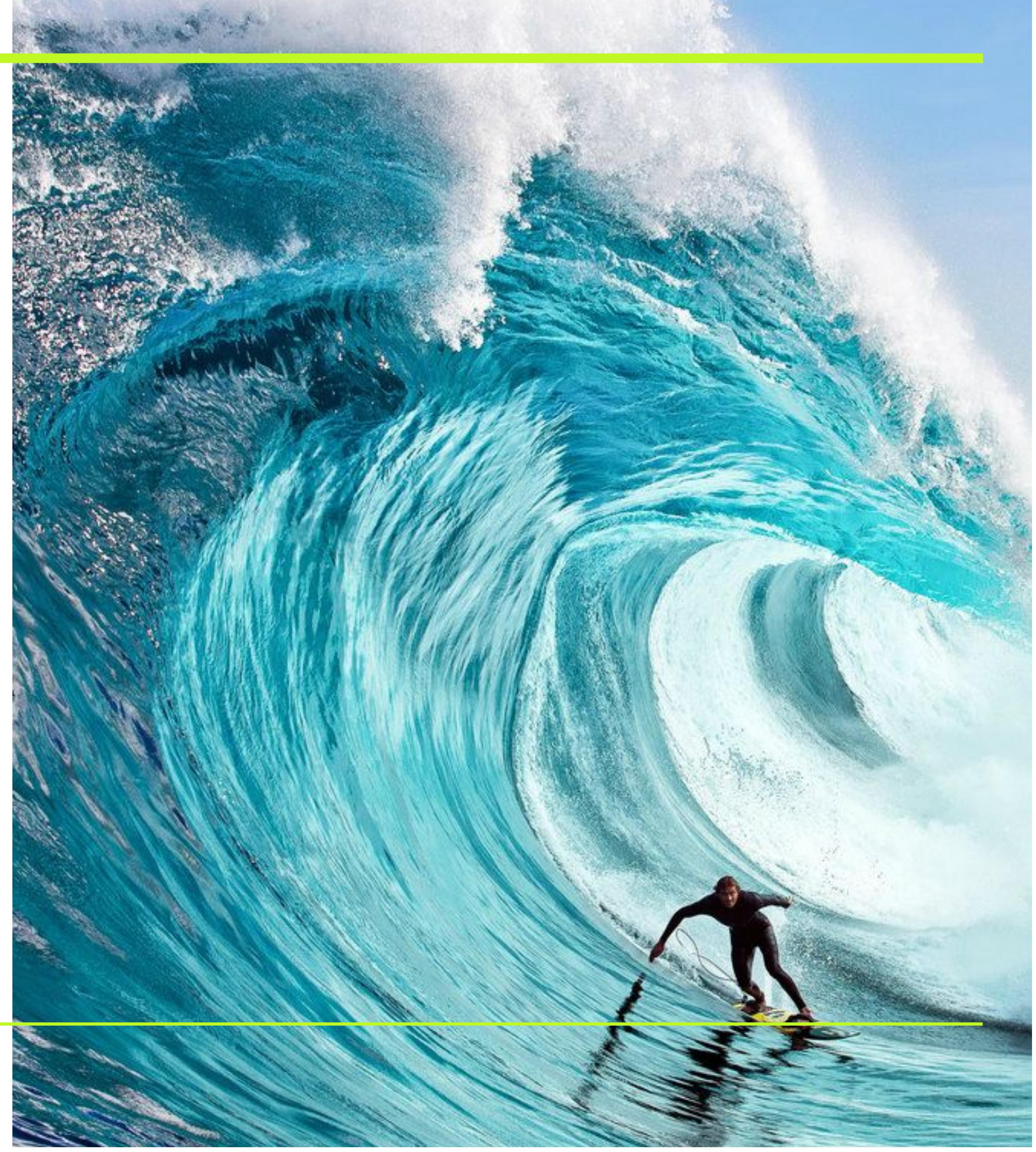
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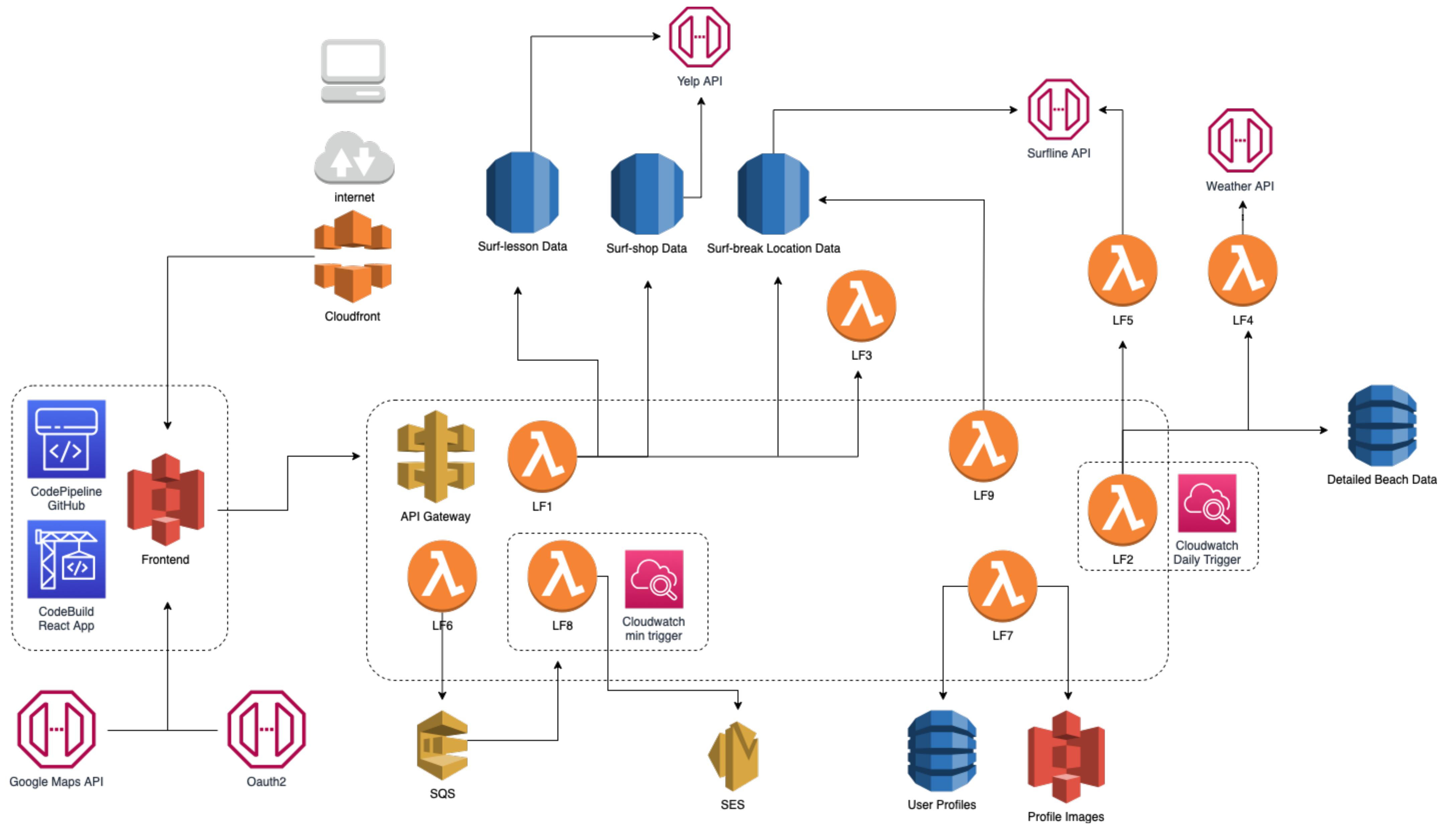
ETHAN GARY, MATTHEW DURAN, NANA ANTWI, KAREM GUVENURK, ANDREW SCHREIBER

# Surfworld - Overview

- AllTrails for Surfing
- One stop shop to plan your next surfing adventure
  - Best surf spots, lessons, and rentals by location
  - Helpful Reviews
  - Surfscore™
  - Beach Details: Weather, Local Restaurants, Wave Height

# Architecture





# Backend Design and Scalability

- Compute: API Gateway and Lambda
- Storage: DynamoDB, OpenSearch, RDS, S3
- External APIs: Yelp, Magic Seaweed, Weather API
- Static data stored in DynamoDB periodically refreshed by Cloudwatch triggered Lambdas

# Frontend Design and Scalability

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- Site deployed via S3 Bucket
  - Cloudfront provides global CDN
  - Profiles and Authentication via Oauth 2.0
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# Landing Page





Catalog Profile

ENJOY THE BEST SURFING EXPERIENCE EVER

# Welcome to Surfworld

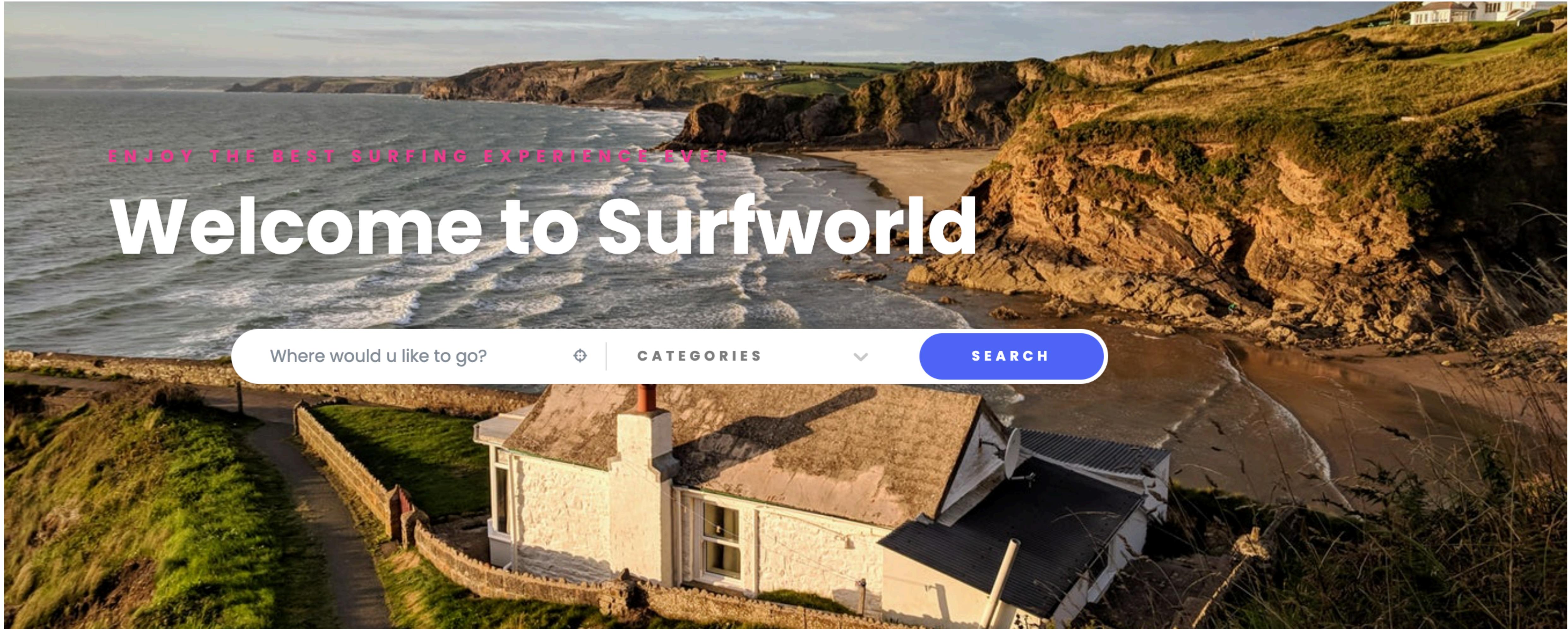
Where would u like to go?



CATEGORIES



SEARCH



# Search Page





## Catalog Profile

KEYWORD

San Francisco

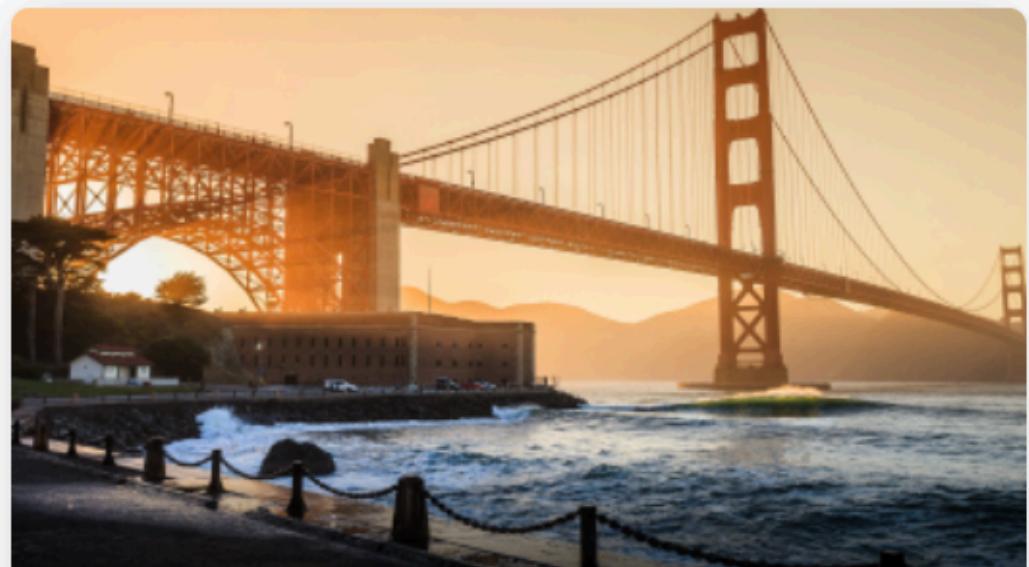


SEARCH CATEGORY

SURF BREAKS

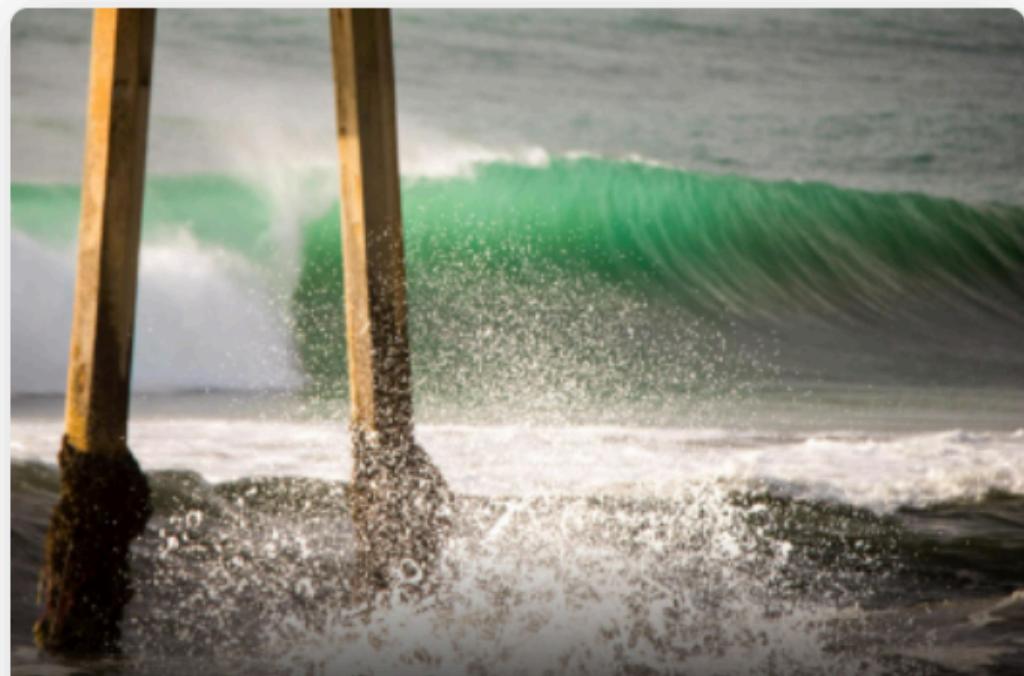


SEARCH



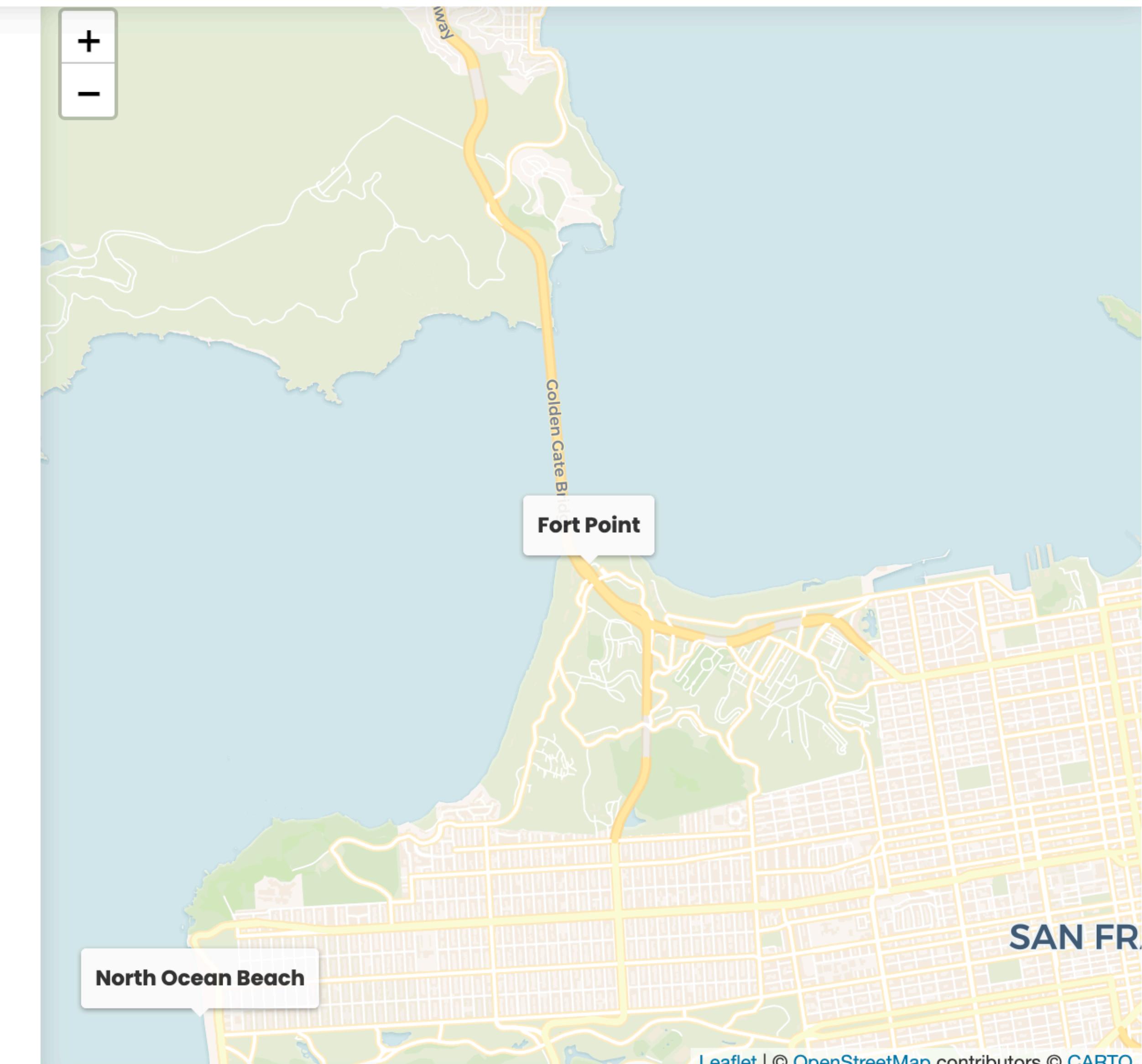
**Fort Point**

SurfScore: 4.88



**Sharp Park**

SurfScore: 6.55



# Beach Detail





# Fort Point

SURF BREAKS

Surf-Score ★ 4.88

## Beach Details



Partly cloudy

Temperature: 46 °F

Feels Like : 44.6 °F

Wind : 4.3 mph



Time: 2022-05-01 07:00:00

Surf Height : 3-4 ft

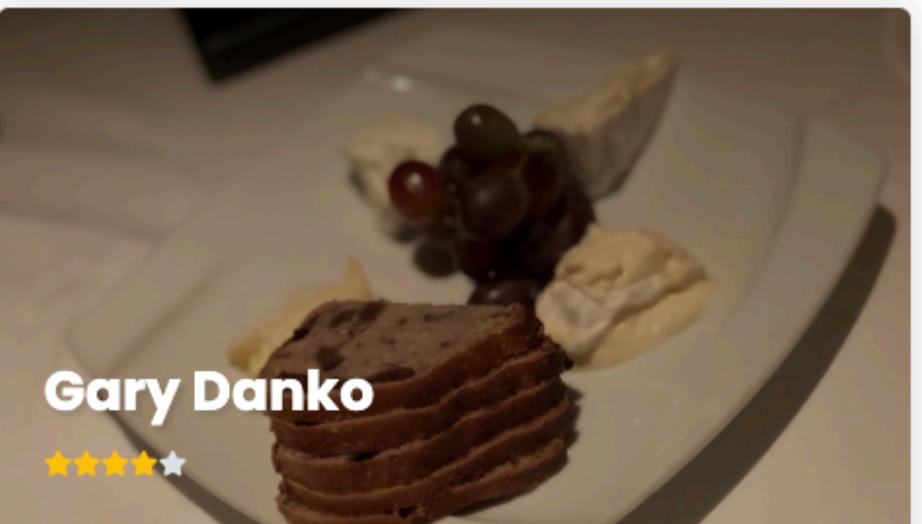
Human Relation : Waist to chest



Add Surf Location to Favorites

**EMAIL ME DETAILS**

## Nearby restaurants



**Gary Danko**



📍 800 N Point St



**Brenda's French Soul Food**



📍 652 Polk St

# Future Work

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- Social Interaction
  - Comments and reviews directly in the app
  - Sub Pages for local communities
- Multi Region Deployments
- Mobile App
- Improve Backend Query Performance