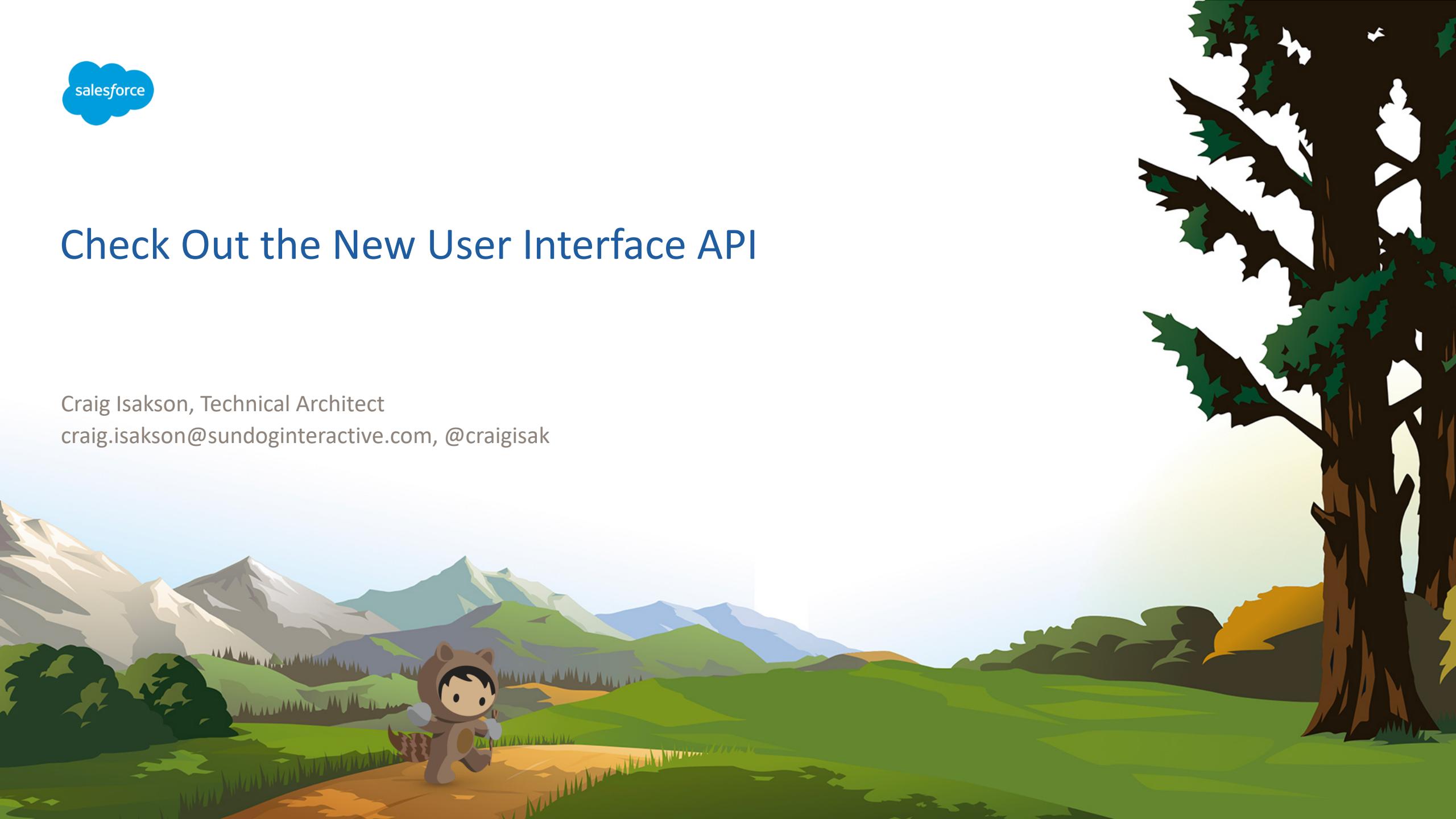




# Check Out the New User Interface API

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Code

<https://bit.ly/2x7JggS>



# User Interface API

What's coming!

- What is it?
- Why use it?
- Why not use it?
- How does it work (Demo)?



# User Interface API

## What is it?

- A single API that returns both UI and record data

```
  },
  eTag: "187743a49605d9e887d6591e774eba3b",
  layoutUserStates: ▾ {
    00h10000002Ms1OAAS: ▾ {
      id: "00h10000002Ms1OAAS",
      sectionUserStates: ▶ {01B100000093rxQEAQ: {collapsed: false, id: "01B100000093rxQEAQ"}, 01B100000093rxREAQ: {collapsed: false,...}}
    },
    layouts: ▾ {
      Lead: ▾ {
        012000000000000AAA: ▾ {
          Full: ▶ {View: {eTag: "e7189a5e8e47c13aad2e6329a1e45935", id: "00h10000002Ms1OAAS", layoutType: "Full",...}}
        }
      },
      objectInfos: ▾ {
        Account: ▶ {apiName: "Account", childRelationships: [ {childObjectApiName: "Account", fieldName: "ParentId",...},...],
        Campaign: ▶ {apiName: "Campaign", childRelationships: [ {childObjectApiName: "ActivityHistory",...},...],
        Group: ▶ {apiName: "Group", childRelationships: [ {childObjectApiName: "GroupMember", fieldName: "GroupId",...},...],
        Lead: ▶ {apiName: "Lead", childRelationships: [ {childObjectApiName: "AcceptedEventRelation",...},...],
        Name: ▶ {apiName: "Name", childRelationships: [], createable: false, custom: false,...},
        Product2: ▶ {apiName: "Product2", childRelationships: [ {childObjectApiName: "ActivityHistory",...},...],
        User: ▶ {apiName: "User", childRelationships: [ {childObjectApiName: "AcceptedEventRelation",...},...]
      },
      records: ▾ {
        00Q10000008QPh4EAG: ▾ {
          apiName: "Lead",
          childRelationships: ▶ {},
          eTag: "c1768ed4a96b60dc18a9a9ebd7e43a3c",
        }
      }
    }
  }
}
```



# User Interface API

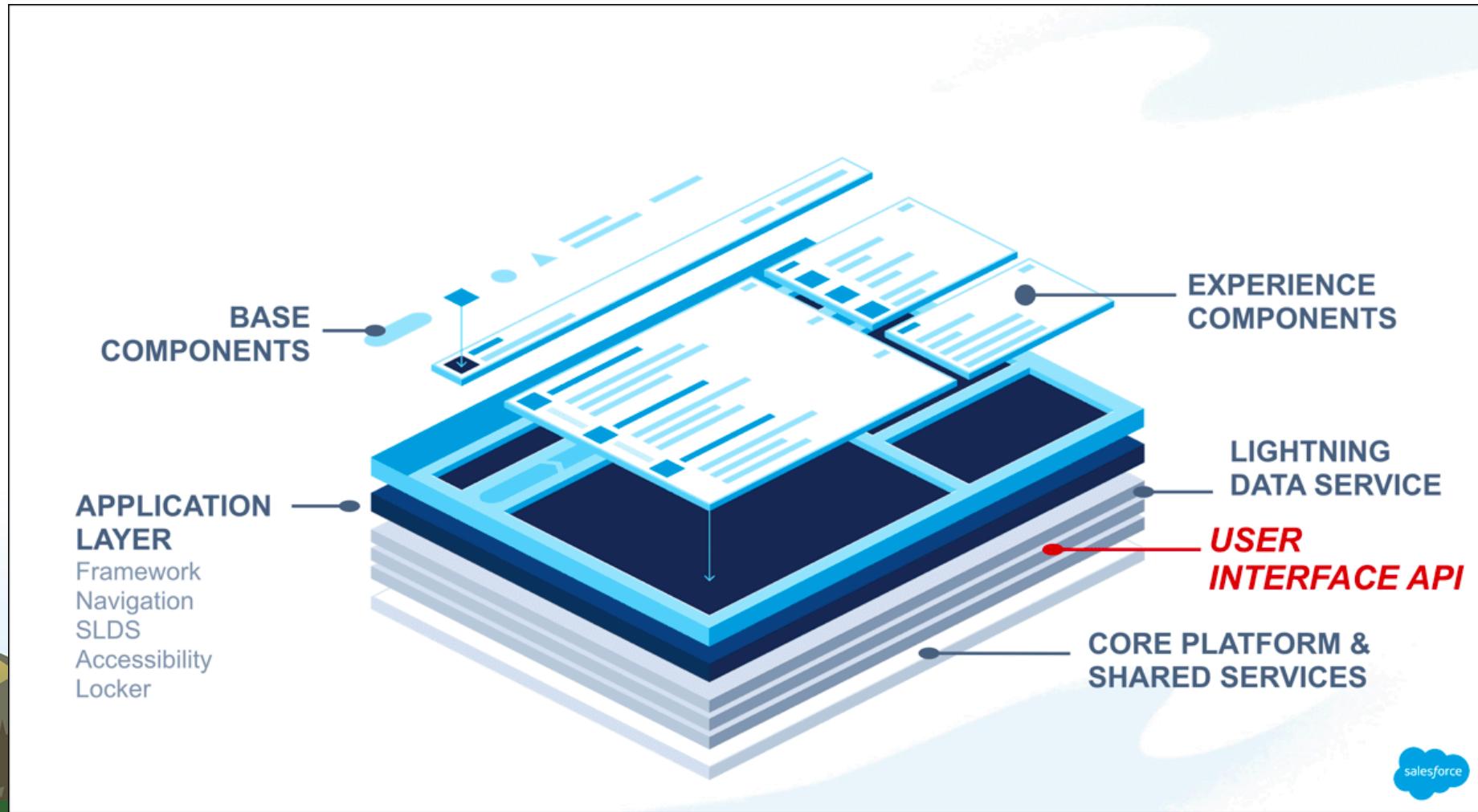
Tools to help you create custom UI easier



- User Interface API
  - Respond to metadata changes, e.g. Layouts, Pick lists, FLS, Sharing, and other declarative functions
- Lightning Data Service
  - Provide JavaScript API and caching for record CRUD in your Lightning component – without requiring APEX

# User Interface API

## Lightning Technology Stack



# User Interface API



## Benefits

- Smart Payloads
  - metadata + data
- Formatted and Localized Display Values
- Field-Level Security and Sharing Rules
- Business Logic
- Layout Type and Form Factors
- Access Modes



# User Interface API



## When not to use the API

- System integration, e.g. data uploads or extraction
- Building Lighting Components
  - Use force:recordData and other base components instead
- Apps that don't get updated
  - no support after 3 years (10 versions)



# User Interface API

## Endpoints

- Records
  - Layouts and Object metadata
  - Create, Edit, View modes
  - Clone and default values
  - Picklists and dependent picklists
  - Child Relationships (Junction Lists)
  - Binary uploads (i.e. Files)



# User Interface API

## Endpoints

- Actions
  - List of Actions with metadata
- Navigation
  - Favorites
- Search
  - Dependent Lookups



# User Interface API

Demo!



# Wrap up

# Trailhead

<https://sforce.co/2Oyplcz>



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