

ThoughtWorks®

SKILL SET OF A FRONT-END ENGINEER

邱俊涛

SOMETHING ABOUT MYSELF

www.icodeit.org

SOMETHING ABOUT MYSELF



@正反反长

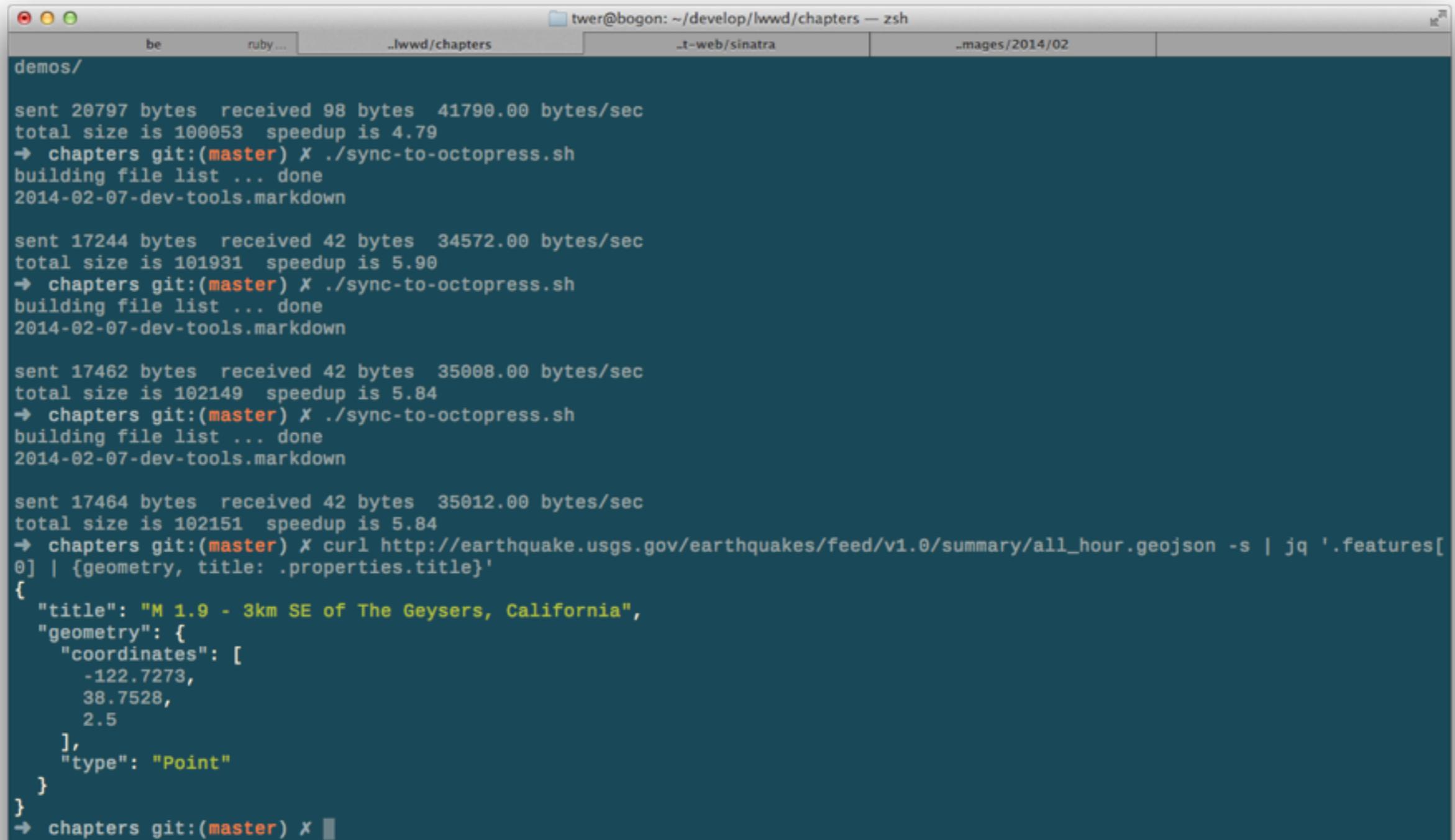


**DON'T LIMIT
YOURSELF AS A
FRONT-END DEV**

*For testers who is not good at script
writing won't be a good developer —*

Juntao Qiu

AUTOMATION - TERMINAL



The screenshot shows a macOS terminal window with five tabs at the top: 'be', 'ruby...', '..lwwd/chapters', '_t-web/sinatra', and '..mages/2014/02'. The active tab is '_t-web/sinatra'. The terminal window displays the following text:

```
twer@bogon: ~/develop/lwwd/chapters — zsh
demos/
sent 20797 bytes received 98 bytes 41790.00 bytes/sec
total size is 100053 speedup is 4.79
→ chapters git:(master) ✘ ./sync-to-octopress.sh
building file list ... done
2014-02-07-dev-tools.markdown

sent 17244 bytes received 42 bytes 34572.00 bytes/sec
total size is 101931 speedup is 5.90
→ chapters git:(master) ✘ ./sync-to-octopress.sh
building file list ... done
2014-02-07-dev-tools.markdown

sent 17462 bytes received 42 bytes 35008.00 bytes/sec
total size is 102149 speedup is 5.84
→ chapters git:(master) ✘ ./sync-to-octopress.sh
building file list ... done
2014-02-07-dev-tools.markdown

sent 17464 bytes received 42 bytes 35012.00 bytes/sec
total size is 102151 speedup is 5.84
→ chapters git:(master) ✘ curl http://earthquake.usgs.gov/earthquakes/feed/v1.0/summary/all_hour.geojson -s | jq '.features[0] | {geometry, title: .properties.title}'
{
  "title": "M 1.9 - 3km SE of The Geysers, California",
  "geometry": {
    "coordinates": [
      -122.7273,
      38.7528,
      2.5
    ],
    "type": "Point"
  }
}
→ chapters git:(master) ✘
```

UNDER THE HOOD - HTTP

HTTP PROTOCOL

UNDER THE HOOD - HTTP

404 NOT FOUND

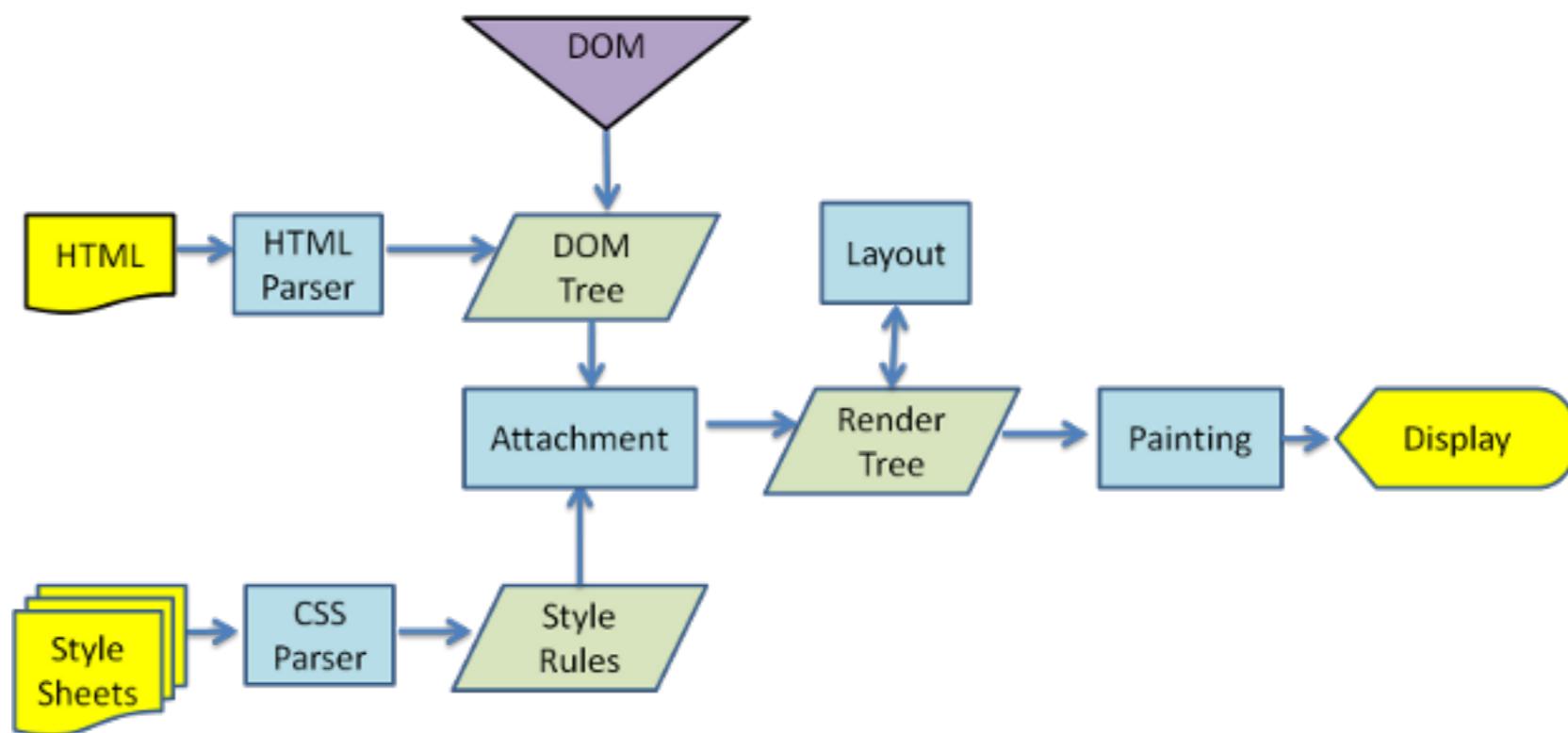
UNDER THE HOOD - HTTP

```
→ react-tube-tracker git:(master) curl http://icodeit.org/ -I
HTTP/1.1 200 OK
Server: GitHub.com
Date: Tue, 21 Jul 2015 02:36:36 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 303990
Last-Modified: Wed, 08 Jul 2015 08:50:14 GMT
Access-Control-Allow-Origin: *
Expires: Tue, 21 Jul 2015 02:46:36 GMT
Cache-Control: max-age=600
Accept-Ranges: bytes
```

UNDER THE HOOD - BROWSER



UNDER THE HOOD - BROWSER



TREAT HTML/CSS AS CODE



PREPROCESSOR

Sass {less}

PREPROCESSOR

```
$text-color: hsl(0, 10%, 90%);  
$highlight-color: hsl(200, 100%, 50%);  
$highlight-hover-color: hsl(210, 100%, 50%);  
  
.link {  
    display: inline-block;  
    padding: 1.2em 2em;  
    text-decoration: none;  
    color: $text-color;  
    font-size: 1.5em;  
}
```

PREPROCESSOR

```
.button {  
  @extend .link;  
  background-color: $highlight-color;  
  float: right;  
  white-space: nowrap;  
  margin-right: 2em;  
  
  &:hover {  
    background-color: $highlight-hover-color;  
  }  
}
```

PREPROCESSOR

```
@mixin circle($radius) {  
    text-align: center;  
    width: $radius;  
    height: $radius;  
    line-height: $radius;  
}  
  
i {  
    color: $mask-color;  
    padding: .5em;  
    display: block;  
    @include circle(1em);  
}
```

BUILD TOOLS



BUILD TOOLS

```
locations-backend - jtqiu@juntao-macbook: ~/develop/ruby/locations-backend - ..tions-backend - zsh - 104x35
→ locations-backend git:(master) ✘ gulp
[17:18:39] Using gulpfile ~/develop/ruby/locations-backend/gulpfile.js
[17:18:39] Starting 'default'...
[17:18:39] Starting 'js'...
[17:18:39] Starting 'ci'...
[17:18:39] Finished 'default' after 37 ms

/Users/jtqiu/develop/ruby/locations-backend/src/app-rewrite.js
  line 4  col 9  'searchForm' is defined but never used.

✖ 1 problem

INFO [karma]: Karma v0.12.37 server started at http://localhost:9876/
INFO [launcher]: Starting browser Chrome
[17:18:39] Finished 'js' after 140 ms
INFO [Chrome 44.0.2403 (Mac OS X 10.10.4)]: Connected on socket Mjqg_fAVg_UWV9_-E_fg with id 34557023
Chrome 44.0.2403 (Mac OS X 10.10.4): Executed 9 of 9 SUCCESS (0.024 secs / 0.024 secs)
[17:18:41] Finished 'ci' after 1.98 s
→ locations-backend git:(master) ✘
```

AUTOMATION TESTS



AUTOMATION TESTS

The screenshot shows a web browser window titled "Cucumber" displaying the results of a Cucumber test run. The URL in the address bar is "file:///Users/jtqiu/develop/ruby/locations-backend/build/reports/result.html". The main content area is titled "Cucumber Features" and shows the results for the "@search" scenario.

Cucumber Features

@search

Feature: Search locations

As a consumer
I want to do search on liked locations site
So I can find some interesting places

Scenario: Search for a location	features/search.feature:7
Given I am on the home page	features/step_definitions/search-steps.rb:3
Then I should see the search box	features/step_definitions/search-steps.rb:7
Scenario: Search for a location	features/search.feature:11
Given I am on the home page	features/step_definitions/search-steps.rb:3
When I type "Melbourne" in search box	features/step_definitions/search-steps.rb:11
And I click search button	features/step_definitions/search-steps.rb:16
Then there are 1 locations show up	features/step_definitions/search-steps.rb:20
Scenario: Like an item	features/search.feature:17
Given I am on the home page	features/step_definitions/search-steps.rb:3
When I type "Melbourne" in search box	features/step_definitions/search-steps.rb:11
And I click search button	features/step_definitions/search-steps.rb:16
Then there are 1 locations show up	features/step_definitions/search-steps.rb:20
When I liked the "1st" location	features/step_definitions/search-steps.rb:35
Then I should see it in liked locations	features/step_definitions/search-steps.rb:40

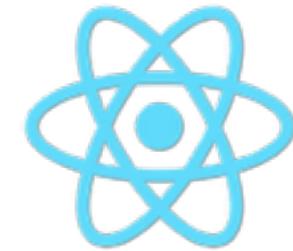
3 scenarios (3 passed)
12 steps (12 passed)
Finished in 0m3.984s seconds
Collapse All Expand All

LIBRARY INSTEAD OF FRAMEWORK



BACKBONE.JS

Knockout.

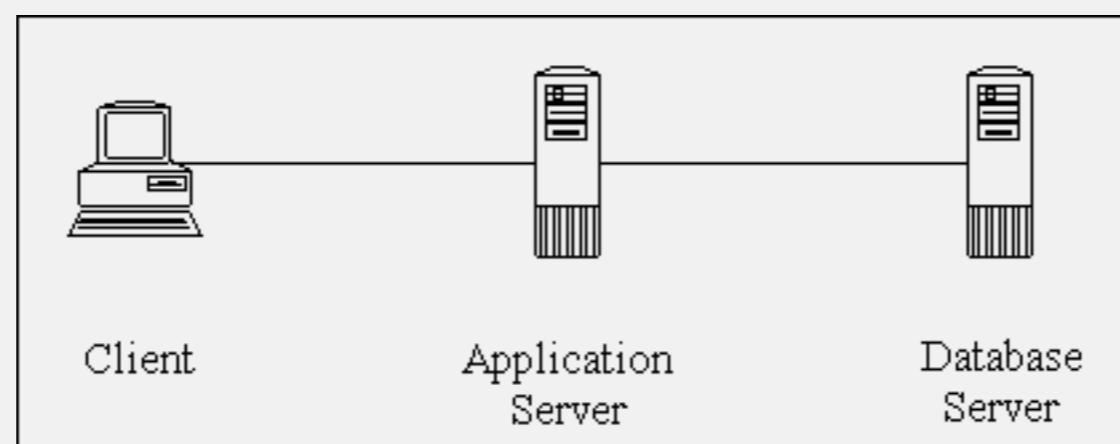


LIBRARY INSTEAD OF FRAMEWORK

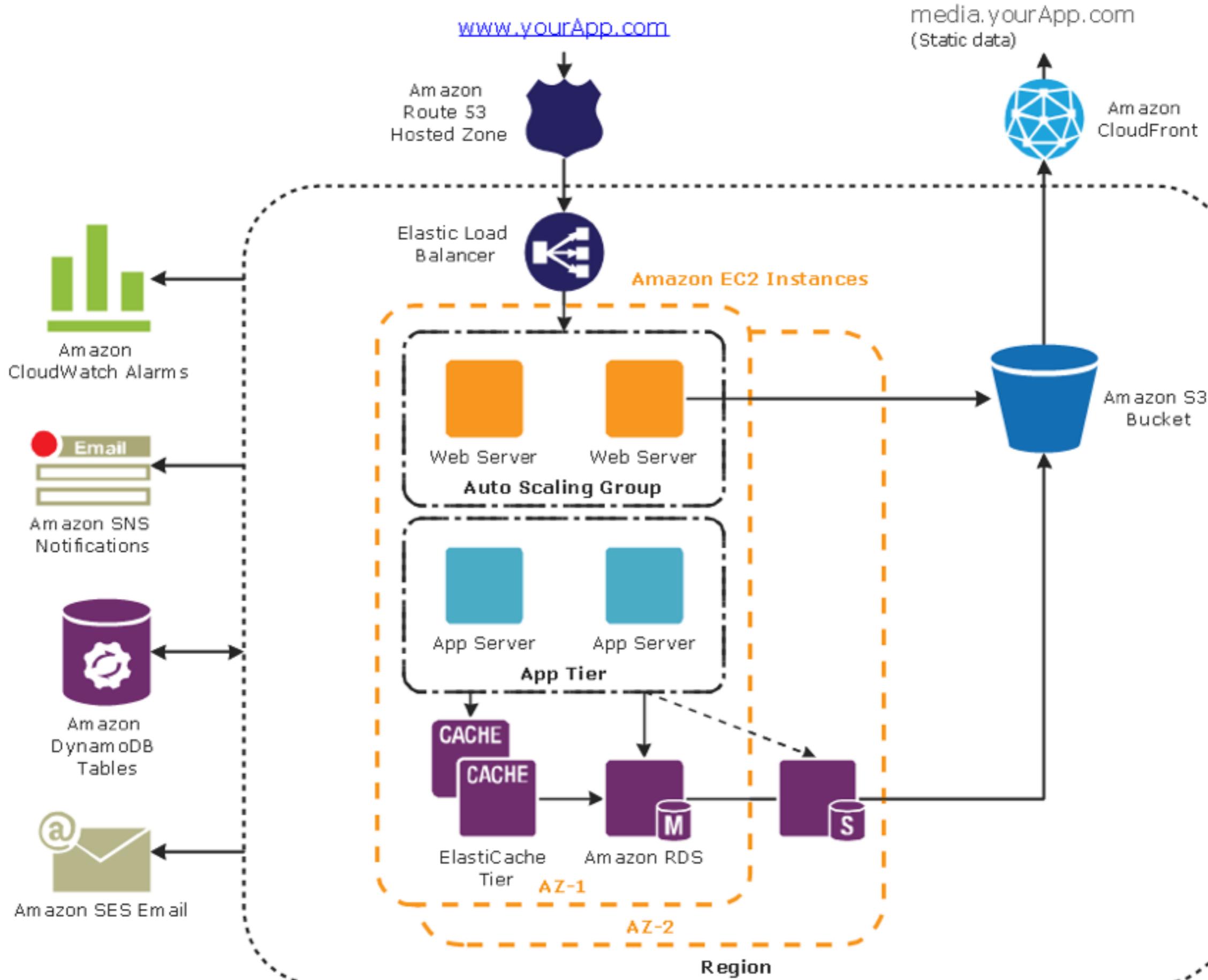


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**SOFTWARE IS NOT
JUST ABOUT CODING**



3-Tier Auto-scalable Web Application Architecture



THANK YOU

For questions or suggestions:

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<http://icodeit.org/>

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