

# Building a Unified Client Team

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上銳了

**SXL.CN**

# React

# React Native

User experience comes before  
developer experience.

# Developers



React.js

React Native



UI Virtual Machine

Web

iOS

Android

# Developers



Weex



UI Virtual Machine

Web

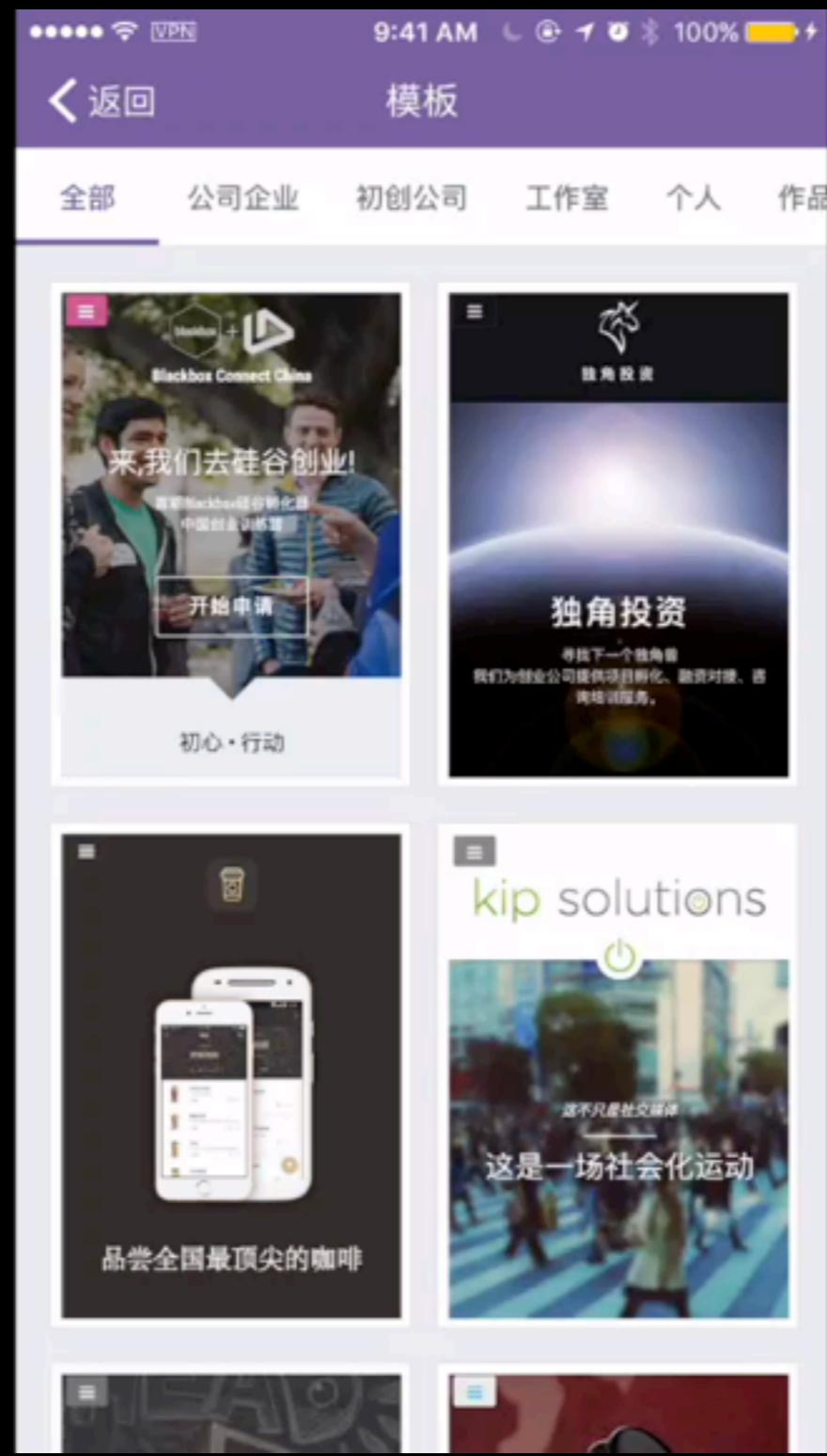
iOS

Android

F2E + Mobile = Client Team

全端团队

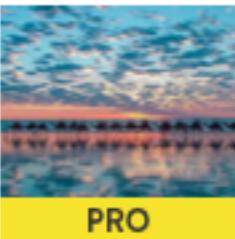
1 iOS + 1 Android + 1 FE  
+ 1 写代码的CTO



OOO●● Sketch 9:41 AM \* 42%

## MY SITES

 CREATE NEW SITE

  
Liya's Site  
[www.liya-ma.com](http://www.liya-ma.com)  
**PRO**  
**PUBLISHED**

  
Liya's Site  
[www.mlydeer.com](http://www.mlydeer.com)  
**UNPUBLISHED**

  
Liya's Site  
[liya.strikingly.com](http://liya.strikingly.com)  
**PUBLISHED**

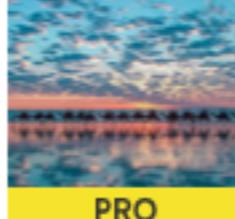
SHARED WITH ME  
Other folks' sites that you can edit & manage.

Susan's Site

 DISCOVER  MY SITES  SETTINGS

OOO●● Sketch 9:41 AM \* 42%

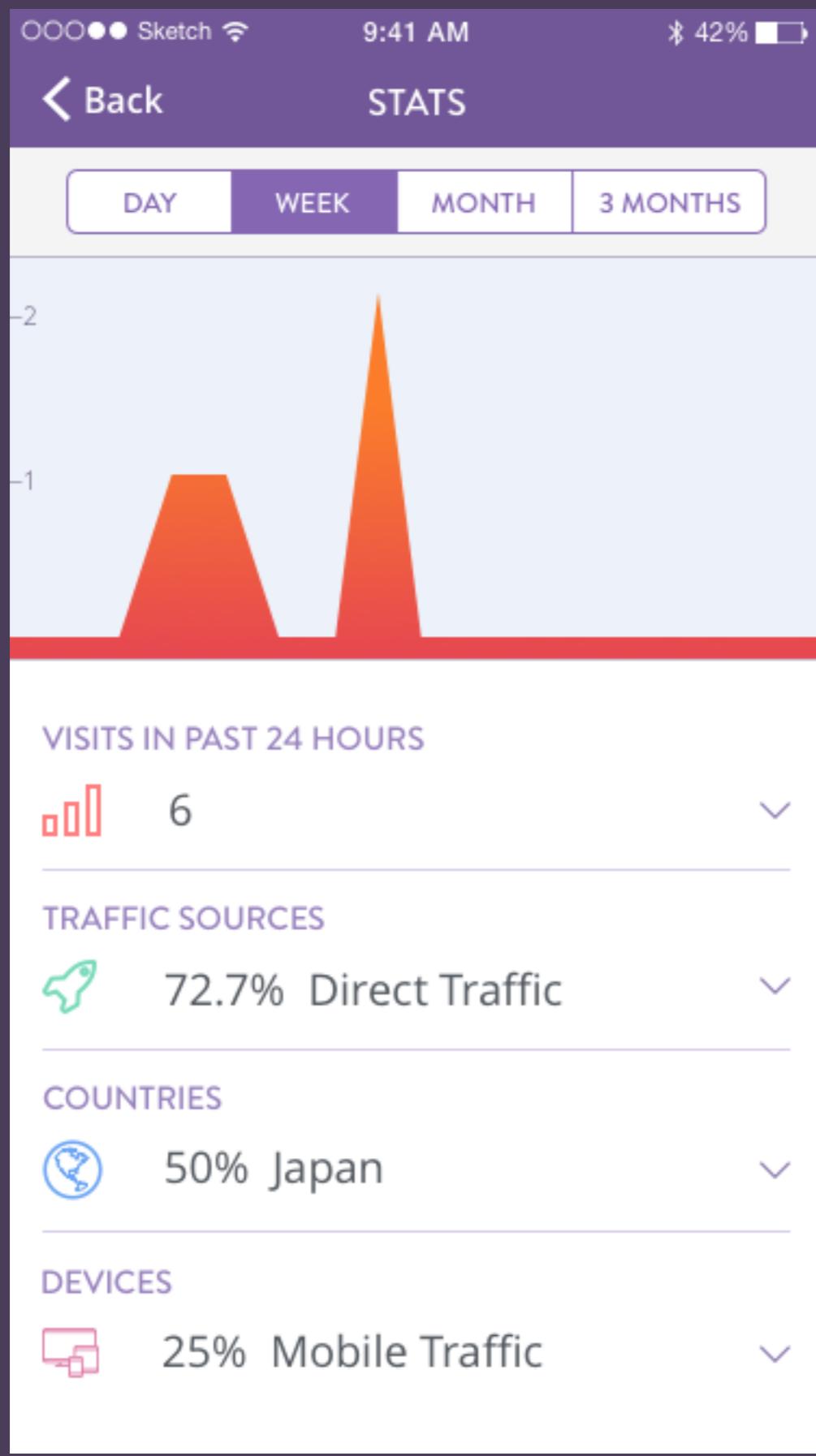
## My Sites LIYA'S SITES

  
Liya's Site  
[www.liya-ma.com](http://www.liya-ma.com)   
**PRO**  
**PUBLISHED**

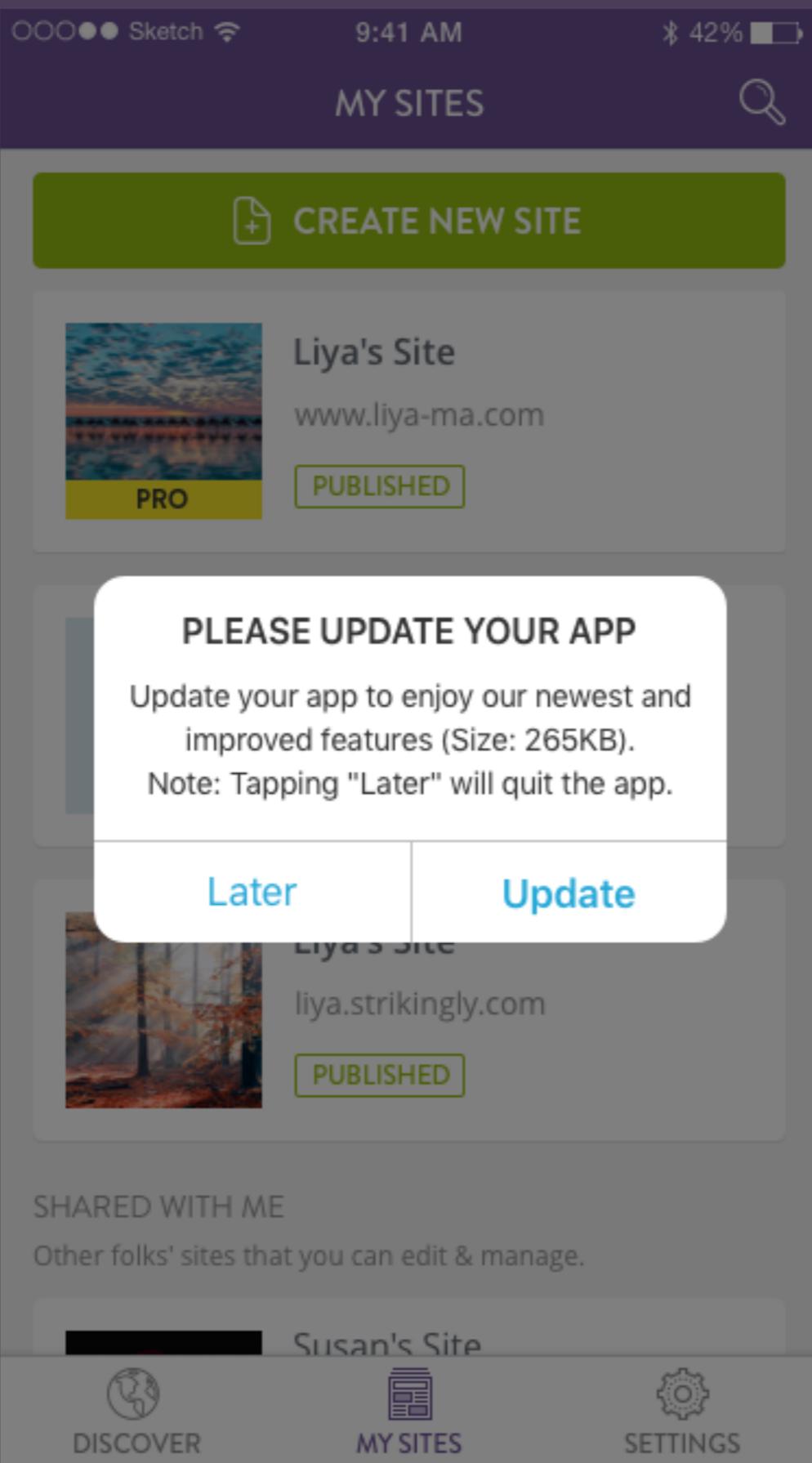
 EDIT  SETTINGS  SHARE  MORE

23 VIEWS LAST WEEK 548 TOTAL VIEWS  
**SEE FULL STATS**

0 NEW RESPONSES 54 TOTAL RESPONSES  
**CHECK INBOX**



- OOO●● Sketch 9:41 AM \* 42%
- FORM RESPONSES**
- INBOX SPAM
- Kyle Garza** >  
Hella narwhal Cosby sweater McSweeney's, salve...  
**CONTACT FORM** 2 minutes ago
  - Eric Fuller** >  
**SIGNUP FORM** 1 hour ago
  - Gloria Pierce** >  
Lorem ipsum dolor sit amet, montes parturient...  
**CONTACT FORM** 5 hours ago
  - Jason Davidson** >  
Tousled food truck polaroid, salvia bespoke small...  
**CONTACT FORM** Yesterday
  - Gary Banks** >  
**SIGNUP FORM** Yesterday
  - Jason Davidson** >



Updating software to version 1.0.21... 56% complete

My Sites LIYA'S SITES

 Liya's Site  
[www.liya-ma.com](http://www.liya-ma.com) 

**PRO** PUBLISHED

 EDIT  SETTINGS  SHARE  MORE

23 VIEWS LAST WEEK | 548 TOTAL VIEWS

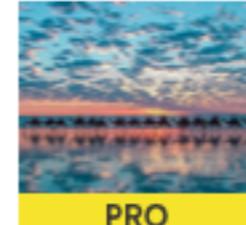
 SEE FULL STATS

0 NEW MESSAGES | 54 TOTAL MESSAGES

 CHECK INBOX

Almost done! Tap the refresh icon to finish updating.

My Sites LIYA'S SITES

 Liya's Site  
[www.liya-ma.com](http://www.liya-ma.com) 

**PRO** PUBLISHED

 EDIT  SETTINGS  SHARE  MORE

23 VIEWS LAST WEEK | 548 TOTAL VIEWS

 SEE FULL STATS

0 NEW MESSAGES | 54 TOTAL MESSAGES

 CHECK INBOX

~60 fps

product UX

faster iteration

small team

# Unified Client Team

## 打造全端团队

A close-up photograph of a light-colored wooden desk. On the desk, there is a large, open notebook with a blue cover, several loose sheets of paper, a white pushpin, a small orange object, and a metal drafting compass. A black tripod stand is positioned vertically on the right side of the frame. The lighting is warm and focused on the objects.

# 1. Ownership by Feature

# 平台分工

	iOS	Android	Web
Feature 1			
Feature 2			
Feature 3			
...			

# 产品功能分工

	iOS	Android	Web
Feature 1			
Feature 2			
Feature 3			
...			

通过功能分工相对平台分工，简化了产品和工程师重复的沟通

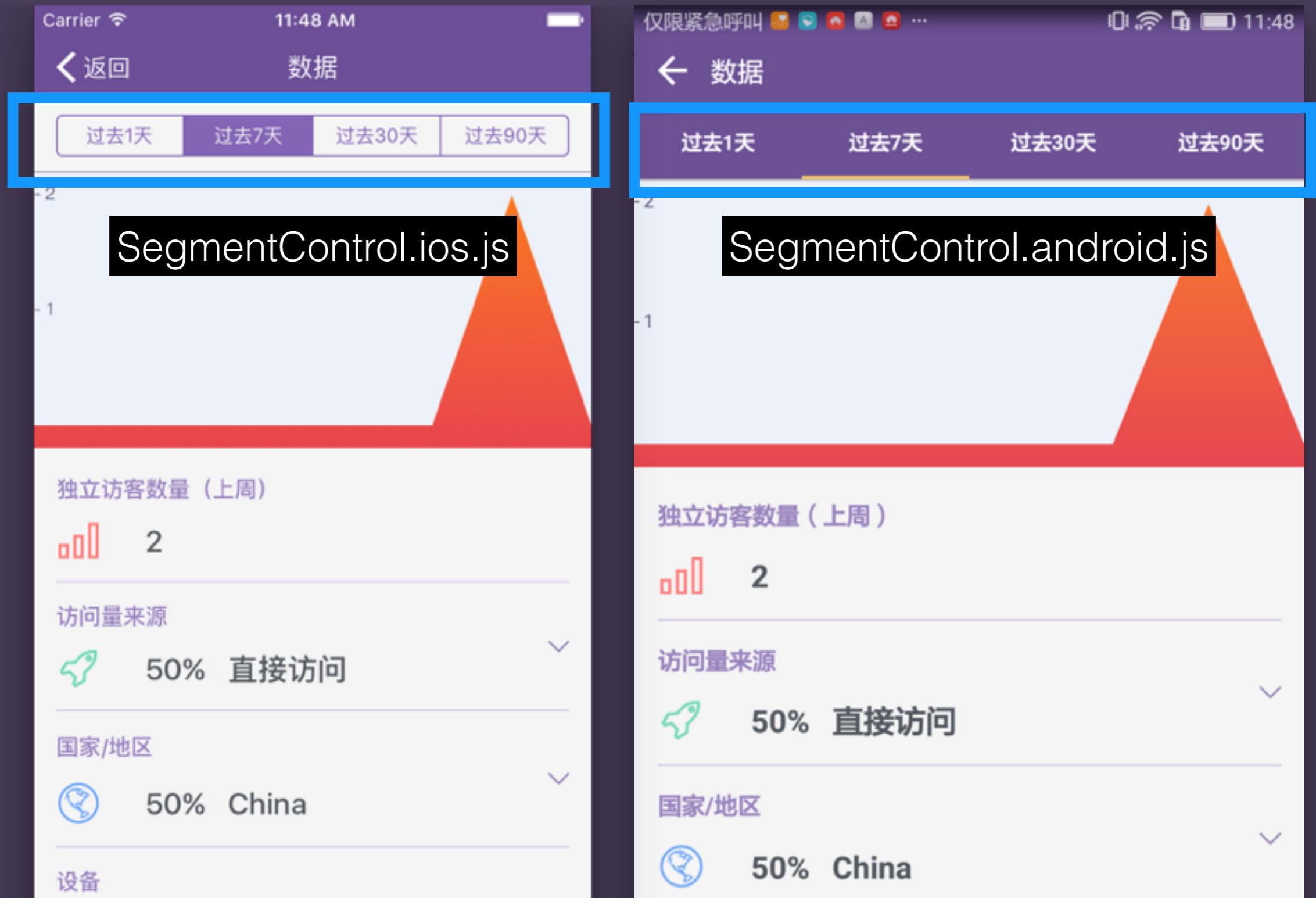
A photograph of two musicians in a field of tall, dry grass. On the left, a man wearing glasses and a dark patterned shirt is smiling while playing a snare drum. On the right, another person's hands are visible playing a brass instrument, likely a saxophone. The background shows rolling hills under a clear sky.

## 2. Engineering Collaboration

iOS & Android

90% code reuse

# iOS & Android



# iOS & Android

- NativeModules
  - native code

# Native Modules

TypeScript Interface

implements

iOS Developer

Android Developer

# Native & Web

# Native & Web

- 1 Repository, share everything except view

```
/fe          # frontend code
/native      # native code
/common     # shared FE and native code
/interface   # TS interface
/helpers
/constants
/actions
/reducers
...
...
```





### 3. Young Ecosystem

# Young Ecosystem

- Mar 2015 - React Native for iOS
- Sept 2015 - React Native for Android
- 2 week train release

取消

## 表单设置

完成

## 表单字段



姓名



邮箱



电话



留言



## 按钮文字

提交



## 提醒邮箱

输入提醒邮箱



当访客提交留言后，你的这个邮箱会收到提醒邮件。

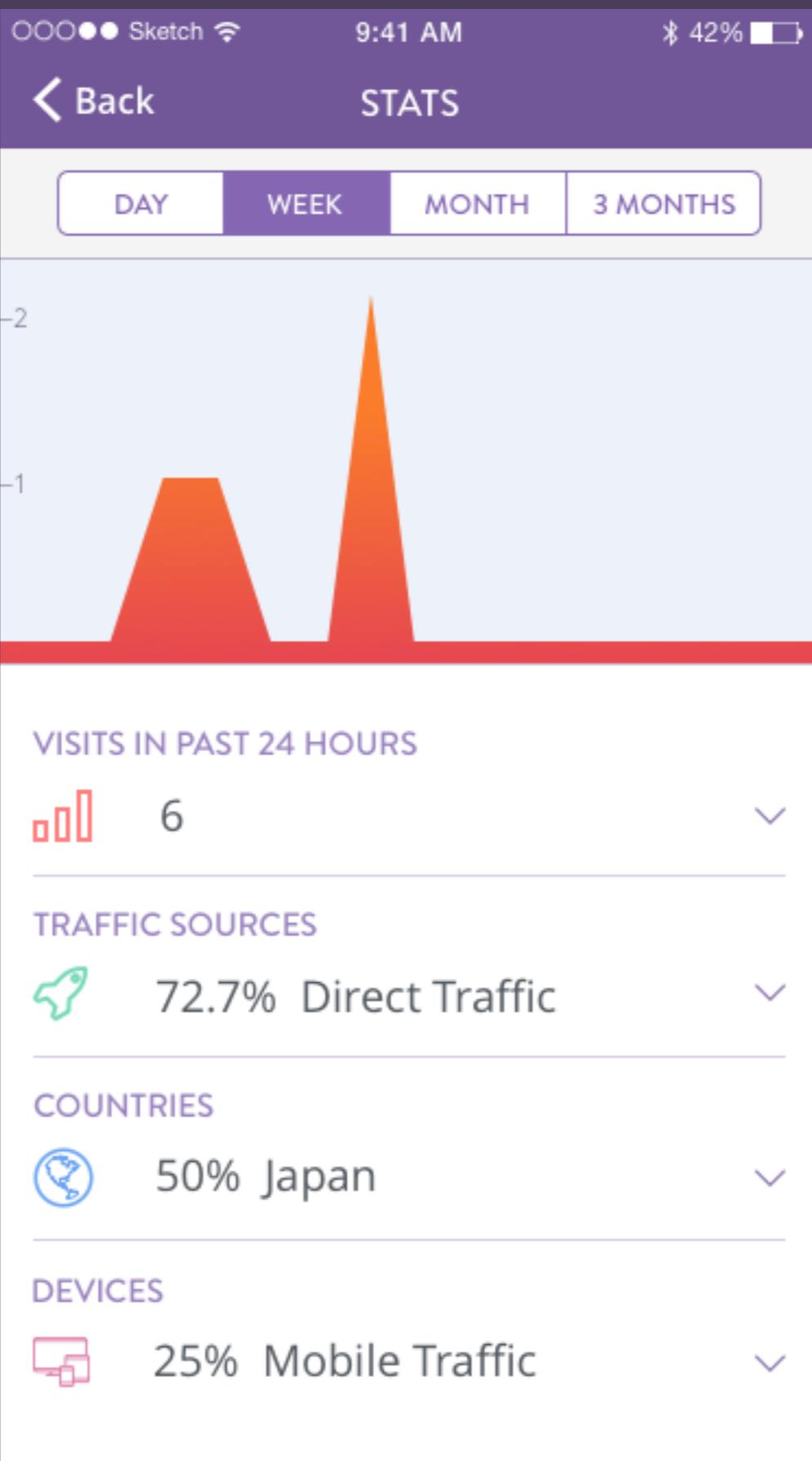
## 成功提示

感谢留言，我们会尽快联系你





Upgrading React Native



# Just fork it

>20% of packages in our package.json were forked

- Your request might not be their priority
- Fast iteration breaks third party library easily
- Not all third party libs are maintained well

A photograph of a group of people playing ice hockey on an outdoor rink. In the foreground, a player in a green jersey is in motion, skating towards the right. Behind them, another player in a blue jersey is also skating. To the left, a player in a yellow and black jersey stands near the boards. In the background, a massive, rugged mountain range with dark, forested slopes rises against a clear sky. A dense line of evergreen trees marks the base of the mountains.

## 4. Team Composition

# Team Composition

- Native experience is very helpful
  - React and React Native is easy to pick up
  - Willing to dive into the internals



1. Ownership by feature
2. Engineering collaboration
3. Young ecosystem
4. Team composition

展望5年以后…

最大的阻力

实践才是硬道理

# The end

twitter/weibo: dfguo

# We are hiring!

[sxl.cn/s/careers](http://sxl.cn/s/careers)

# Q&A

# iOS & Android

## NativeModules

```
// TZWechat.ts

const { NativeModules } = require('react-native')

interface TZWechat {
  isWechatInstalled: (callback: (error: any, result: boolean) => void) => void
  sendAuthRequest: () => Promise<string>
}

export const TZWechat: TZWechat = NativeModules.TZWechat
```

TypeScript interface for contract

# NativeModules

TypeScript Interface

- WeChat login
- QR Code
- Etc.

implements

iOS Developer

Android Developer