

# METEOR

“秒”会 Meteor  
——Meteor 从0到1

by 刘吉洋

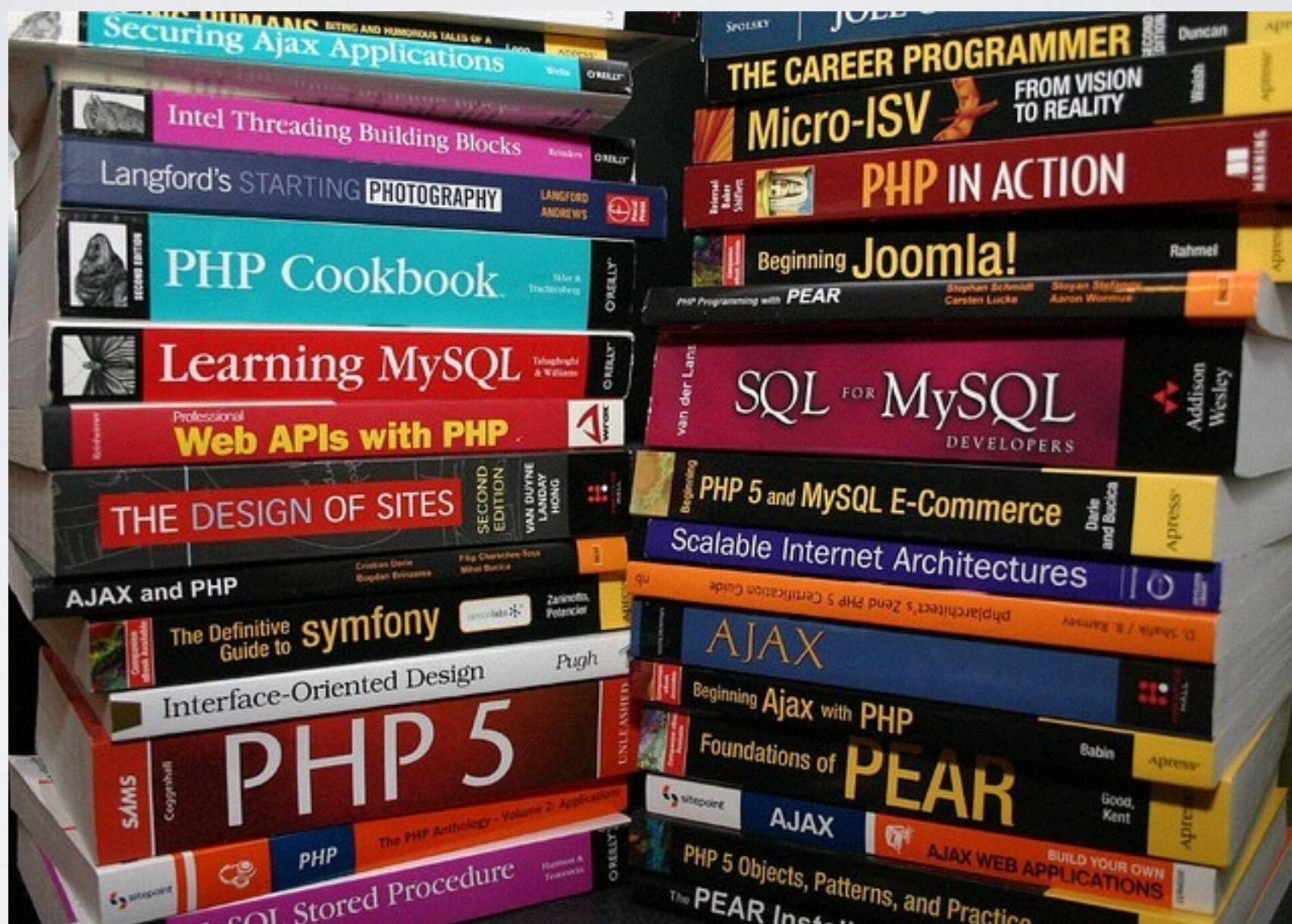
Meteor Developer @ 毛豆网

# 刘吉洋

- 1 年 android framework (BORQS) 开发
- 好奇猫 ( [haoqicat.com](http://haoqicat.com) ) co-founder, rails
- 毛豆网 (maodou.io) meteor 开发
- Hackers Group



# 技术栈演进



# 技术栈演进

Frontend

Javascript

Backend

PHP

Apache

MySQL

Linux



# 技术栈演进

Frontend

Javascript

Backend

Python

Apache

MySQL

Linux

# 技术栈演进

Frontend

Javascript

Backend

Ruby

Apache

MySQL

Linux

# 技术栈演进

Frontend

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# 技术栈演进

Frontend

Javascript

Backend

Javascript

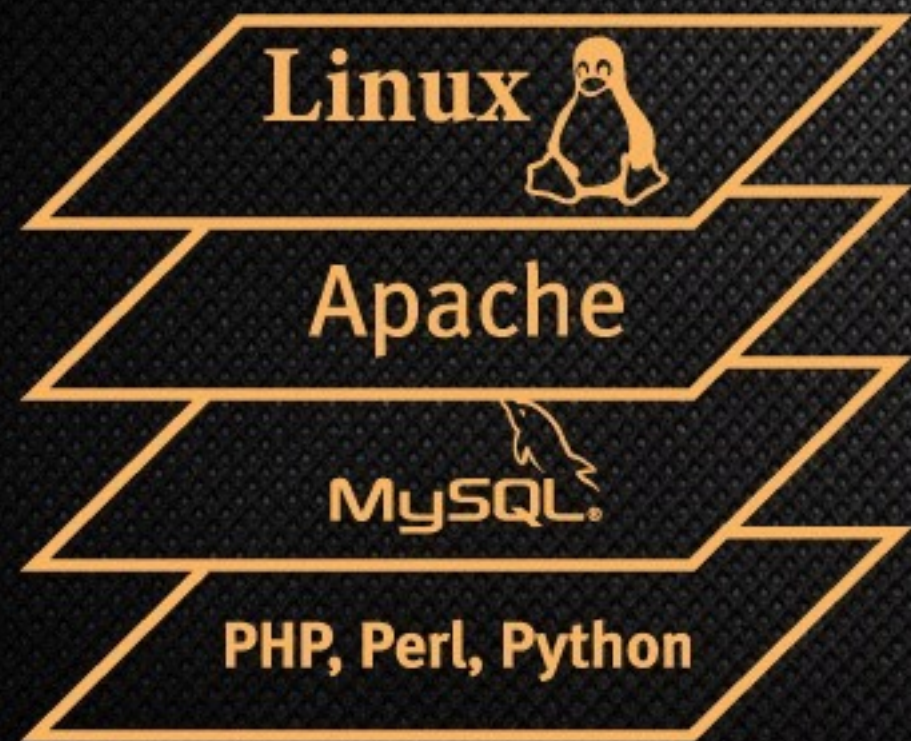
Apache

MySQL

Linux



# 技术栈演进



VS



# METEOR

meteor ['mitiə]

n.流星;



# METEOR

- 2011年成立
- 2012年4月发布
- 2012年7月，获得投资1120万美金
- 2015年5月，获得投资2000万美元



# METEOR

[rails/rails](#)

Ruby ★ 27,194 🔗 10,906

Ruby on Rails

Updated 3 hours ago

A bar chart representing commit frequency over time for the rails/rails repository. The chart shows a series of vertical bars of varying heights, indicating the number of commits made at different intervals. The activity is spread across the top of the repository card.

[meteor/meteor](#)

JavaScript ★ 27,012 🔗 3,087

Meteor, an ultra-simple, database-everywhere, data-on-the-wire, pure-Javascript web framework.


Updated 8 hours ago

A bar chart representing commit frequency over time for the meteor/meteor repository. The chart shows a series of vertical bars of varying heights, indicating the number of commits made at different intervals. The activity is concentrated in the bottom section of the repository card.



# LEADERBOARD

\$ meteor create --example leaderboard

 <b>LEADERBOARD</b> Select a scientist to give them points		
1	Carl Friedrich Gauss	40
2	Grace Hopper	40
3	Ada Lovelace	35
4	Marie Curie	35
5	Claude Shannon	30
6	Nikola Tesla	5
Carl Friedrich Gauss		<a href="#">Add 5 points</a>

# LEADERBOARD

- `<body></body>`
- Reactive(随动)
- mongo+minimongo
- 端(server)到端(client)到端(all clients)
- session -> UI state

# METEOR 牛在哪里

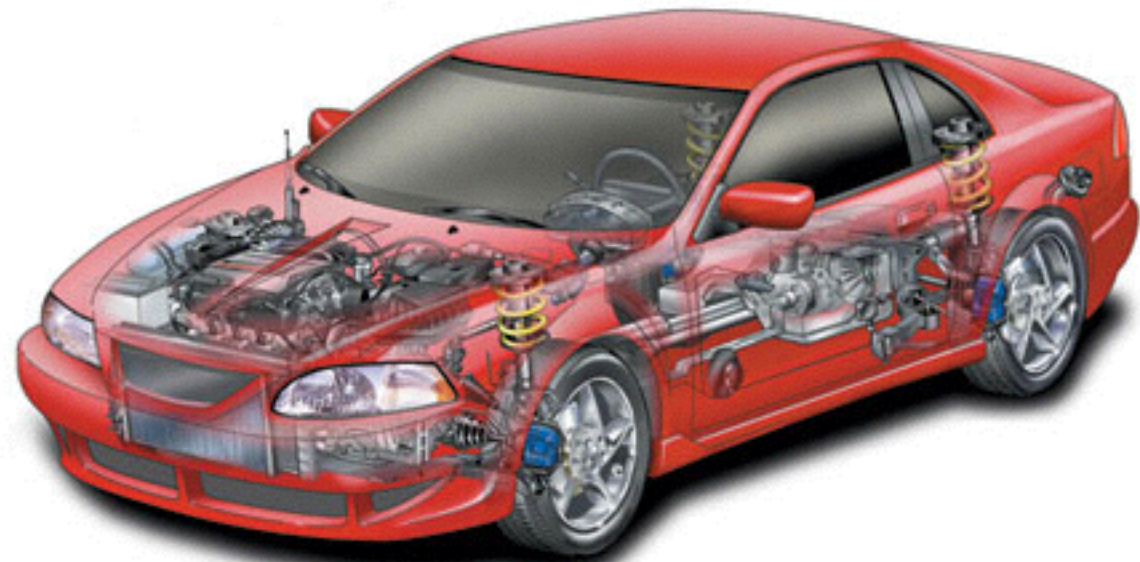
- Data on the Wire. HTTP + Websocket
- One Language. Javascript 全栈模糊网络边界
- Database Everywhere. 本地 Mini Mongo
- Full stack reactive 端到端到端
- 集成Cordova模糊 web 和移动界限
- 活跃的生态系统 atmosphere 6756 packages, npm 172,618 packages
- 简单高效 为开发者而生
  - Hot code push
  - Compile and PreCompile



# MEAN & METEOR



*The MEAN stack*



*Meteor.js*



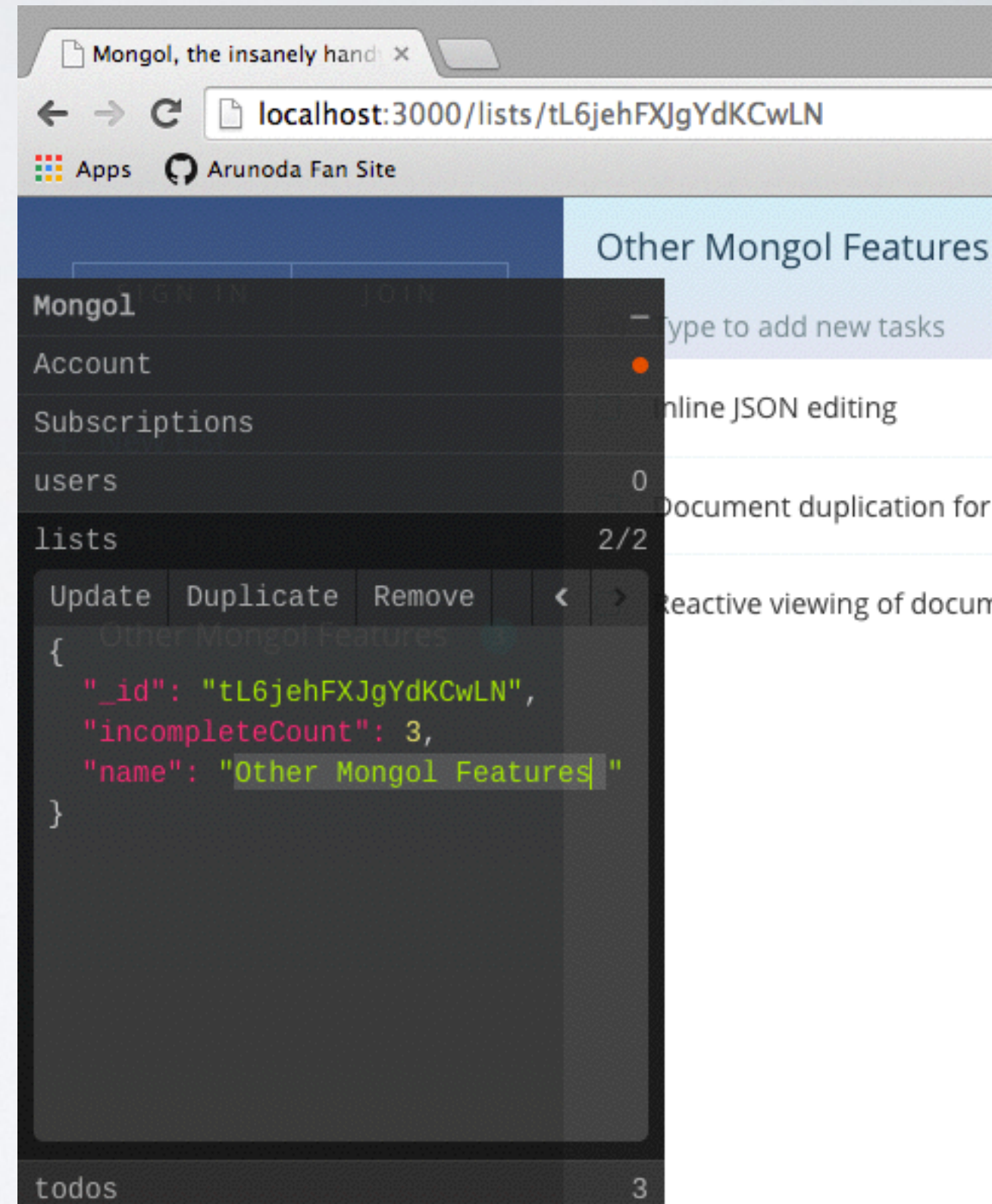
# MEAN & METEOR

Meteor =

MEAN stack +  
Socket.IO +  
grunt/gulp +  
Cordova +  
hot code reload +  
a lot more.

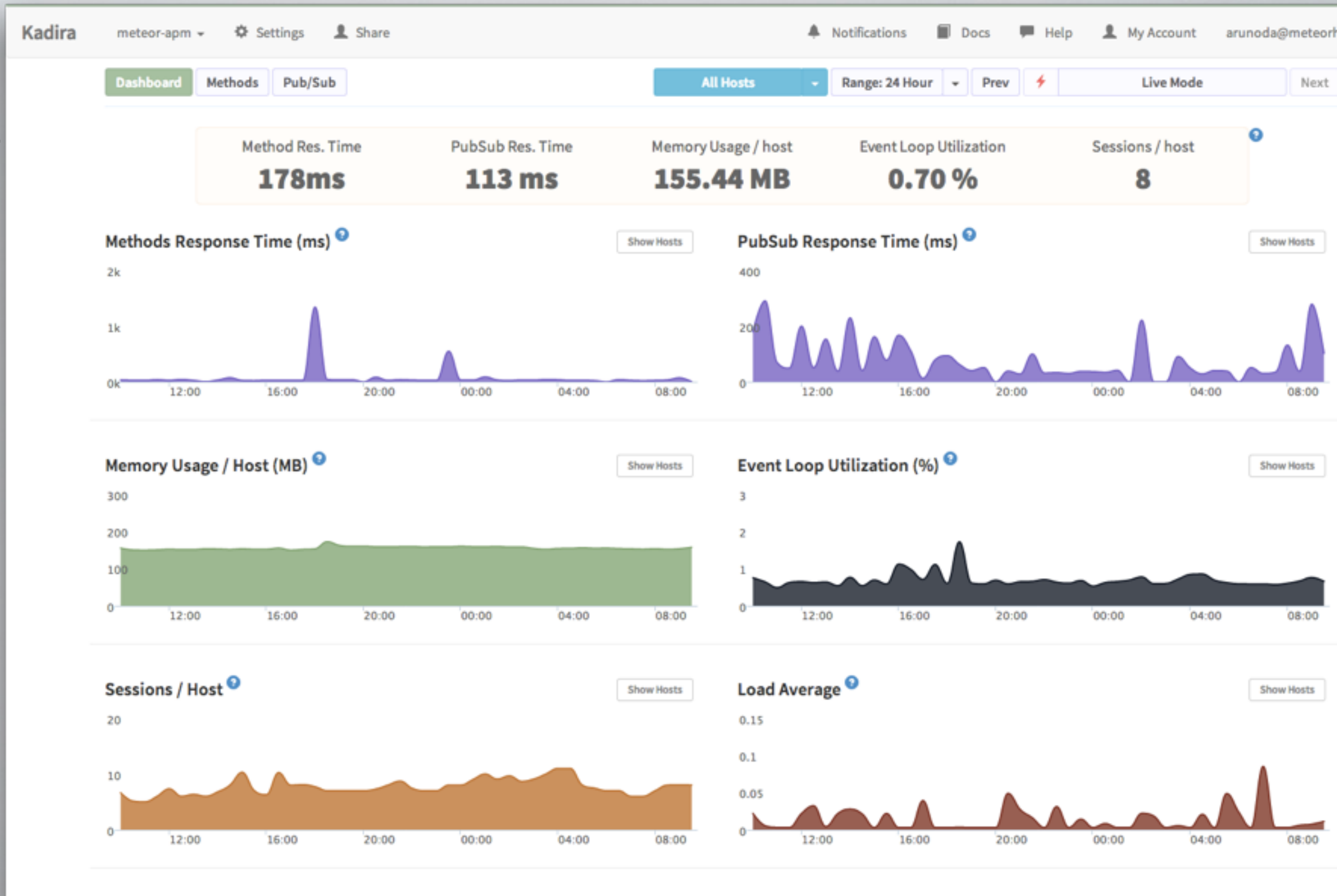
# 开发工具

- git, github
- atom/sublime/webstorm
- chrome 开发者工具
- mongol, robomongo
- kadora



# 开发工具

kadira



# METEOR开发最佳实践

## 开发流程：

- 需求讨论：头脑风暴，白板
- 原型图：铅笔图，线框图（mockplus）
- 确定前端框架，theme
- 确定 collection 名称，document名称&类型，collections 关系
- 确定 template 结构&名称：template 结构合理
- 模块开发 by 功能
- 部署
- 测试
- 上线



# METEOR开发最佳实践

## 前端：

- 框架： bootstrap, meterializecss(<http://materializecss.com/>), ionic
- theme: <https://wrapbootstrap.com/>
- 图标： font awesome, google material design, ionicons, bootstrap

# METEOR开发最佳实践

## 工具:

- 数据库: mongol, robomongo
- chrome 开发者工具 `console.log()`
- mup

# METEOR开发最佳实践

## 安全 checklist:

- remove Insecure
- remove autopublish
- 设置 allow/deny 规则
- 在 method()中要 check
- 不要过渡 publish 数据

# 架构

- Mongo OPLOG
- Microservice
- 部署：mup，Docker

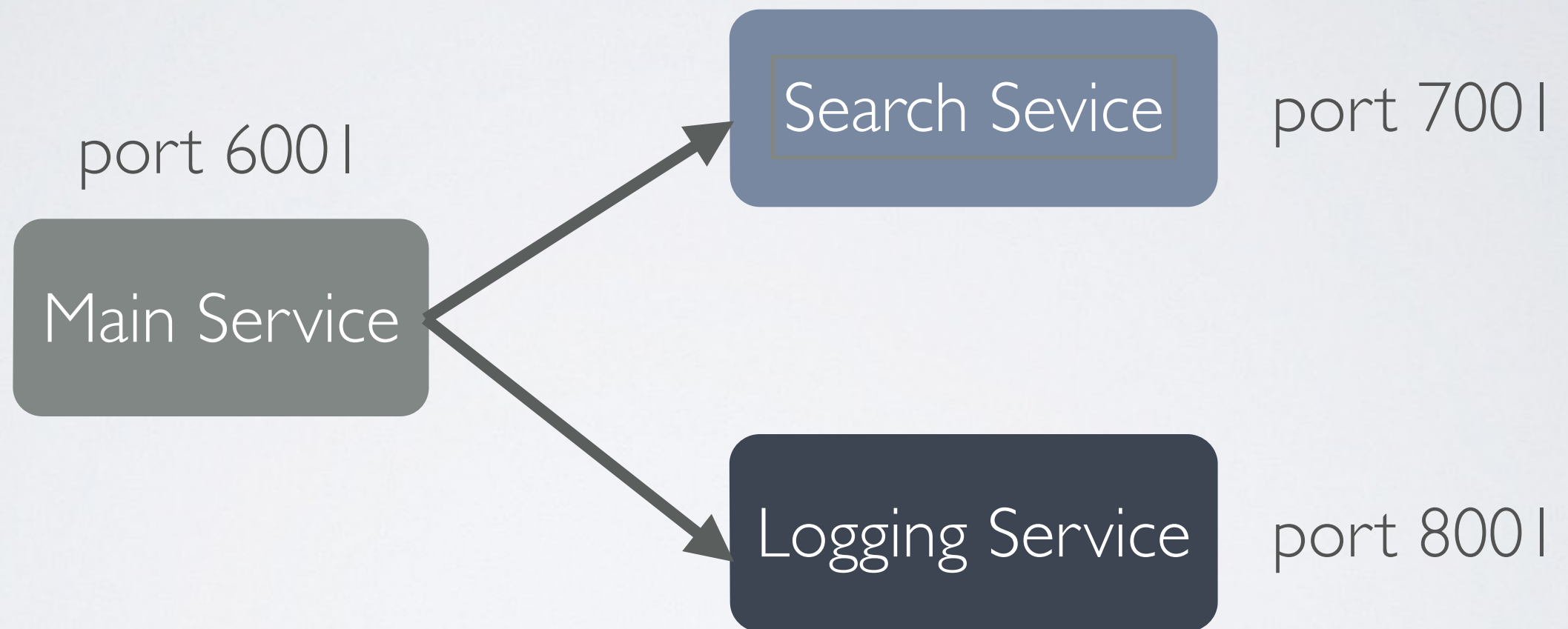


# 架构：MICROSERVICE

## 应用场景：

- 数据接收
- 数据处理
- Email 发送
- 后台任务
- 分析服务

# 架构: MICROSERVICE



# 架构：MICROSERVICE

## Main Service

```
Cluster.connect("mongodb://localhost:27017/discovery");  
Cluster.register("web");
```

```
var logConn = Cluster.discoverConnection('logging');  
var searchConn = Cluster.discoverConnection('search');
```

```
SearchSource.defineSource('packages', function(searchText, options) {  
  // we don't need to wait for completing the log method call  
  // that's why we defer it's execution  
  Meteor.defer(function() {  
    logConn.call('log', 'main-app', "searching for: " + searchText);  
  });  
  var searchResult = searchConn.call('getPackages', searchText, options);  
  return searchResult;  
});
```



# 架构：MICROSERVICE

## Logging Service

```
Cluster.connect("mongodb://localhost:27017/discovery");  
Cluster.register("logging");
```

```
// make this a capped collection to rotate logs  
var Logs = new Meteor.Collection('logs');
```

```
Meteor.methods({  
  "log": function(source, message) {  
    this.unblock();  
    Logs.insert({ source: source, message: message, time: new Date() });  
    console.log("[%s] %s", source, message);  
  }  
});
```

# 架构：MICROSERVICE

## Searching Service

```
Packages = new Mongo.Collection('packages');
```

```
Cluster.connect("mongodb://localhost:27017/discovery");  
Cluster.register("search");
```

```
Meteor.methods({  
  "getPackages": function(searchText, options) {  
    ...  
  }  
});
```

# 架构：部署

**mup**

mup.json

\$ mup setup

\$ mup deploy

nginx



# 架构：部署

## Docker with meteorhacks:meteord

# go to your project root and apply following

```
meteor build --architecture=os.linux.x86_64 /tmp/data
```

```
docker run -d \
```

```
-e ROOT_URL=http://yourapp.com \
```

```
-e MONGO_URL=mongodb://url \
```

```
-e MONGO_OPLOG_URL=mongodb://oplog_url \
```

```
-v /tmp/data:/bundle \
```

```
-p 8080:80 \
```

```
meteorhacks/meteord
```

# 架构：部署



- 6400 并发用户数每单个服务器
- Native iOS App 使用 Objective-DDP 连接到 Meteor 服务器

# METEOR 适合&不适合

不适合：

- 已有后端，建造前端 用 React或者 Angular 更好
- 必须Native的移动 App (可以考虑 DDP)
- 高度图像密集型 可以考虑famo.us
- 想构造 web-service/REST API，使用 Sails.js 或者 Hapi 更合适
- 必须使用 MySQL
- 静态内容
- 100w 用户量级

适合：

- SPA
- 商业软件
- O2O
- 轻应用
- 微信 App
- 实时性能



# 精益创业

- PHP 是最好的语言
- lean startup & MVP
- 成本 & 效率

# 国内开发障碍

- GFW
- compose.io
- Modulus.io: modulus deploy

# 学习 METEOR

初级：

- leaderboard: meteor create --example leaderboard
- 免费初学者电子书： Your First Meteor Application
- discover meteor: 建议先看完 Your First Meteor Application，再看这本书
- 麦子学院Kevin视频教程： node.js上最新HTML5开发框架-Meteor

# 学习 METEOR


## 中级

- meteorhacks blog
- bullet proof
- Evented Mind在线教程



github: luckyyang



刘吉洋 

北京 朝阳



扫一扫上面的二维码图案，加我微信