### 后台开发(python, go) -- 何冬海

**Backend software developer (python, go) -- Truman He**

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#### 个人优势和技术栈(Advantage And Skill Stack)

深入理解并掌握一至多门后端语言(python,go)并有相当成熟的项目实践经验。自驱力的快速学习者，强责任感以及与之而来的将事物落实的自然意愿。洞察力及全局观。曾收获相当成熟的经验在中型数据分发系统平台，ETL(Extract-Transfer-Load)等项目中。熟悉常用数据结构及算法，对协议通信、缓存储存、设计模式和原则及扩展优化等方面熟悉并有一定运用实践。在运用python进行快速原型及瓶颈优化方面有一定积累。  
技术栈：**python**, go, mysql, redis, etcd, docker, MQ,Django...

*Proficient at one or more backend language(python,golang) and gained fairly mature experiences in project practise.Faster learner, self-motivate, deeply responsibility referer to a natural willing to get things done.Insight & overall view.Fairly mature experiences has been gained in medium-size data distribute system, ETL(Extract-Transfer-Load) and so on.Familiar with basic data structure and algorithm,fairly comprehended and practice in communication protocol、 cache storage、architecture design patterns and principle、extend、optimization and so on. Fairly accumulation in Fast-Prototyping and Bottleneck-Optimization with python.*  
*Skill-stack list:****Python****,go,mysql,redis,etcd, docker, MQ,Django...*

### 近期工作(Recent Job)

#### 太极计算机股份有限公司 （Taiji Computer Co., Ltd）

 python开发(python backend developer)   2018.10-now

项目涉及:数据分发平台(主导完成，详见项目经验)；ETL(Extract-Transfer-Load) Tools；爬虫及其中相关的过滤、统计、字符识别等组件；流程自动化等。主要技术语言为python，也写过go,前端vue等。  
*Projects involved: Data distribution System;ETL(Extract-Transfer-Load) Tools; Crawler and related filtering, statistics, character recognition and other components The main is python, alse used go, vue and so on.*

**深圳市翠绿金业有限公司（Shenzhen cuilvjin Co., Ltd）**

python开发(python developer)   2018.06-2018.09

清算业务及报表业务流程自动化，金融相关数据采集作为分析来源，后台开发及部署运维等。  
*Financial settlement and statement process automation, Financial related data collection as the analysis source, Backend development, deployment, operation and maintenance etc.*

### 项目经验（Projects）

#### 数据分发系统（Data Distribute System）

关联工作经验(relate job)：太极计算机股份有限公司（Taiji Computer Co., Ltd） 描述：解决问题/设计目标:2B，千级别用户量，万级频道量，每天近TB级新鲜数据的 分发平台(生产目前仅几千频道，GB级数据每天)。多来源异构数据结构化后入库作为 数据源的基础上，多用户对多频道进行订阅分发，以及业务运行统计接口，基于统计 数据进行趋势分析等其它相关接口，以及前端的用户订阅管理SPA。亮点是数据模型的 动态兼容性(频道及用户及订阅关系的简单灵活热操作且无碍于不中断的近实时分发) 及多用户消费多频道中多数据条目时的一致性问题(原理启发:GTID,CAS,ACK)与效率的 矛盾权衡后的处理。总体来说使得接口优雅且高性能实现，内在瓶颈及可扩充维护性等 充分考虑，处理逻辑边界情况尽可能完善，暴露出来的使用尽可能简洁易用直感。 具体：松耦合分模块数据隔离的架构方案为后期可能的横向扩展，或数据持久化层的变更迁移， 或渐进式的微服务化重构都作了充分考虑；多级日志系统为问题追踪，运行监控，业务 数据统计等作了充分考虑……  
主要技术栈：python,go,mysql,redis,Django,vue,gunicorn...

*Description: A data distribute platform (design volume: thousands level users,ten thousands level channels, GB level fresh data per day): Source from multi-source heterogeneous data those would structured and stored into database, multi user can operate subscription to multi channels and distribution, Statistical query, analysis based on statistical data and others related interface are exposed through API, A front-end user subscription management SPA provide accessibility of friendly operating of most function above.Bright spot: the dynamic compatibility of the data model (channel, user and subscription is simple and flexible, hot update operation of reading relationship without impeding near real-time distribution) and the handling of the consistency issues when multi user consume multi data item of multi channels ,which contradict with efficiency. In general,has made an elegant and high performance API implementation, fully considering the internal processing logic as Maintainable as possible, and exposed API as possible simple. The architecture scheme is loose-coupling moduling, data-isolation, which are well considered on it's possible horizontal expansion in the later stage, or change/migration of data persistence layer,or gradual microservice refactoring etc. The multi-level log system are well considered on bug tracking, operation monitoring, business data statistics etc. Project main technology stack:python,go,mysql,redis,Django,vue,gunicorn...*

成就：主导从需求分析到整体架构原型到前后端的整体设计实现及优化，和一个基于vue实现的简单的SPA用于用户管理(登录注册注销概览查询订阅退订等)。  
*Achievements: Led the overall design、implementation and optimization from requirements analysis to overview architecture prototype to backend details, and a simple SPA implementation for user management based on Vue. (Which contains login registration logout overview query subscription unsubscribe, etc.).*

链接(link):*<http://naotu.baidu.com/file/d42e566e2ad01ec3b5fdb84a48bcfa3e?token=f003507c4f76f023>*

### 教育经历(Education)

武汉生物工程学院  | 机械设计制造及其自动化  | 统招本科  
Wuhan Bioengineering Institution | Mechanical Engineering and Automation  | Bachelor of Engineering  
 2011.09 - 2015.06

**社交主页（Social Page）**

<https://github.com/TrumanH/Career/tree/master>