陈阳洋

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教育背景

- **北京化工大学**　　　　　　　　　　　　　　　　　　　　　　　　　　北京
  理学院 / 应用化学　　　　　　　　　　　　　　　　　　　　　　　2014.9 – 2018.7

实践经历

- **字节跳动(今日头条)**　　　　　　　　　　　　　　　　　　　　　　北京
  后端基础工程师　　　　　　　　　　　　　　　　　　　　　　　　2018.6 – 至今
  - 负责旗下汽车app懂车帝的Feed后端架构和优化,并优化其性能达到20%,并开发和丰富了APP的Feed的组成卡片和内容,并增加了更多相关的功能
  - 负责字节跳动其他产品线如今日头条和抖音的汽车类的视频,文章和图片的广告定位和广告流量投放
  - 从零构建并维护内部针对视频,文章,用户,推荐系统相关的OLAP平台

- **百度（人工智能部 知识图谱组）**　　　　　　　　　　　　　　　　　北京
  算法实习生　　　　　　　　　　　　　　　　　　　　　　　　　2017.5 – 2017.9
  - 利用内部Hadoop平台使用朴素贝叶斯方法对百度百科已有数据进行数据挖掘,新增300万未知的知识图谱数据,正确率在95%以上
  - 使用内部深度学习框架LegoNet,用神经网络对搜索的点击结果的数据进行处理,优化现有搜索结果的排序

- **Megvii(Face++)**　　　　　　　　　　　　　　　　　　　　　　　北京
  软件开发实习生　　　　　　　　　　　　　　　　　　　　　　　2016.6 – 2016.10
  - 使用Golang编写了基于Google ProtoBuf的JSON-gRPC的网关生成器,可提取一份配置好的proto文件,生成前端提供RESTful服务后端走RPC的服务
  - 使用D3.js编写了内部深度学习训练的监控,通过编写前端缓存结构,实现数据动态加载,优化海量数据的前端展示问题
  - 使用React写内部云的控制台界面

- **EasyEasyOversea (https://easyeasyoversea.com)**
  独立开发　　　　　　　　　　　　　　　　　　　　　　　　　　2017.1 – 2017.2
  - 最好的留学工具,改变了当下学生想留学但信息不对称的问题,简化了申请海外院校和企业的过程,独立设计开发运营
  - 刚上线一周,搜索次数就超十万+,被三家天使投资主动联系,被六家该领域主要公司主动寻求合作
  - 基于MongoDB和Gevent编写了一套高性能搜索爬虫组件,使用ElasticSearch作为搜索后端,用Golang写了搜索缓存结构来减少硬盘IO并发,使用Django Rest并基于Mysql写了应用的论坛,并使用Redis优化并发,并使用Celery编写了一些需要等待的异步组件,使用React编写并设计了的Material Design的前端,并使用D3.js做数据展示

- **Juicy (github.com/salamer/Juicy)**
  独立开发　　　　　　　　　　　　　　　　　　　　　　　　　2017.12 – 2018.1
  - 分布式 K/V 数据库,其中自编写了分布式一致性协议Raft,还实现了数据压缩和持久化功能

比赛经历

- **美国数学建模大赛(MCM/ICM)(队长) / 二等奖(Honorable Mention)**　　2016.2
  - 对阿尔及利亚的可用水资源,医疗投入,政府监管等数据进行拟合分析得相应的数据关系,并基于灰色系统理论进行建模
  - 巧用Kmeans方法对取水点建模

- **亚马逊AWS Hackathon Beijing(队长) / 三等奖**　　　　　　　　　　2016.9
  - 使用Golang + Javascript开发,使用了Grpc, React, Docker技术,可基于一份JSON 配置文件,生成一整套前端监视器服务,数据来源是通过Rpc调用的分散的集群的数据,并对监视器的信息源提高结构支持

- **BloomBerg Code Your Way to Global Data / 一等奖**　　　　　　　2016.11
  - 编写脚步自动化下载并购案例,并使用Word2Vec算法找出相关度很高的词进行自动化文本抓取与处理

获奖

- **人民三等奖学金**　　　　　　　　　　　　　　　　　　　　　　　2015.7

技能

- 熟悉Web前后端开发,数据处理与抓取,HTTP协议
- 熟悉使用Python, Go, 了解 C, Javascript, R, Ruby, Java
- 掌握基本数据结构和算法,常见数据挖掘、机器学习相关基本原理及应用
- 熟悉Linux基本操作,数据库操作
- 语言: 英语(CET-6),日语（基本日常交流）

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EDUCATION

- **Beijing University of Chemical Technology** — Beijing
  School of Science / B.S. in Applied Chemistry — *Sep. 2014 - Jul. 2018*

PROFESSIONAL EXPERIENCES

- **ByteDance (Tik Tok Parent Company)** — Beijing
  Backend Architecture Engineer — *Jun 2017 - present*
  - Responsible for its car app's backend architecture , and optimize its feed performance to 20% at least, develop and enrich the composition of the feed and content
  - Responsible for the interaction with Bytedance's other apps like TopBuzz, Tik Tok, and optimize these apps' car-related advertise serving
  - Build and maintain internal OLAP platform for video, articles, users, recommendation systems from scratch

- **Baidu (AIG, Knowledge Graph Group)** — Beijing
  Algorithms Engineering Intern — *May 2017 - Aug 2017*
  - In the internal Hadoop platform, using naive bayesian method to do the data mining for all Baidu encyclopedia data, adding 3 million unknown knowledge graph data, and the accuracy rate was above 95 %.
  - In internal deep learning platform LegoNet, using neural network method to process the data of the search results and optimize the sorting of existing search results.

- **Megvii (Face++)** — Beijing
  Software Engineering Intern — *Jun 2016 - Oct 2016*
  - Built a JSON-gRPC gateway application generator based on Google Protobuf coded by Golang, which can read a .proto file and automatically generate a complete set of Goroutine RESTful Web service.
  - Developed a deep learning training monitor via D3.js library internally. Designed a front-end cache structure to load data dynamically, and solved and optimized massive data visualization problem.
  - Designed console interface of Deep Learning Cloud, which can be applied for virtual machine, modification and monitoring functions.

- **EasyEasyOversea (https://easyeasyoversea.com)**
  Independent Developer — *Jan 2017 - Feb 2017*
  - The Best App for studying abroad. It changes and optimize the situation of information asymmetry.
  - In the first week, The times of searches is over 100,000 +, and was contacted by three angel investors, actively sought cooperation by six major companies in the field.
  - The main technologys are: ElasticSearch, React, Django, D3.js, libev, web crawler, high performance cache, Mysql and MongoDB

- **Juicy (github.com/salamer/Juicy)**
  Independent Developer — *Dec 2017 – Jan 2018*
  - Distributed Key/Value Database, With the implementation of the Raft consensus algorithm in Go, and it support the data compress and persistence.

COMPETITION EXPERIENCES

- **American Mathematical Modeling Contest / 2nd prize (Honorable Mention)** — *Feb 2016*
  - Fit the data from Algeria's available water resources, medical investments, and government regulatory data to obtain the correlations based on a gray system. Proposed KNN tricks to model the location of wells.
- **Amazon AWS Hackathon, Beijing / 3rd Prize (team leader)** — *Sep 2016*
  - Used Golang and Javascript development via gRPC, React and Docker methods to realize the configuration files, automatically generating a complete set of front-end monitoring service. The source of the data is called by the scattered cluster in gRPC. Improved the structural support of the monitor's information source.
- **BloomBerg Code Your Way to Global Data / 1st prize** — *Nov 2016*
  - Wrote a automated downloading acquisitions case(PDF) script and use Word2Vec algorithms to find target

AWARDS

- **Renmin third prize scholarship** — *Jul 2015*

SKILLS

- **Master web development, web crawler scraping.**
- **Skilled in Python, Go, familiar with C, Javascript, Ruby**
- **Skilled in data structures and algorithms, web protocol, database**
- **Familiar with data mining, machine learning**
- **Language: Mandarin(native speaker), English (CET-6), Japanese (basic daily communication)**