

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 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量, 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)

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>)** *Jan 2017 - Feb 2017*
Independent Developer
 - 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)** *Dec 2017 - Jan 2018*
Independent Developer
 - 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)