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**EDUCATION**

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

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**PROFESSIONAL EXPERIENCES**

- ByteDance (Tik Tok Parent Company)** Beijing  
*Software Development Engineer* Jun 2018 - present
  - Responsible for the development of the fundamental + live business of the App DCar, including feeds, live broadcasts, article and video pages, IM system, private messages push, widgets(such as banner), covering App 75 % of traffic
  - Led the design and execution of DCar demotion, realizing the availability of basic service at low balance layer's functioning, keeping the service stability when traffic booming from Spring Festival's activities
  - Optimized the distribution service of feed and refractory channel, realizing user channel customization, enriching subscription and prime channels. Optimized and improve distribution efficiency significantly
  - In charge of the design and execution of widget resource launch, (incl. button, banner, pop-up, etc.). Satisfied the customized needs of various situations with rules engine, and developed independent protobuf generator to realize framework limitation and backward expansibility
  - Led the design and execution of private message distribution. Realized users directional recall through graph database, peak clipping through message queue, and downstream stability through rate limit. Realized millions of private messages' distribution in minutes
- Baidu (AIG, Knowledge Graph Group)** Beijing  
*Algorithms Engineering Intern* May 2017 - Aug 2017
  - Based on 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 %.
  - Based on 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
  - Protobuf IDL gateway generator, based on Protobuf Generator, generate complete RESTful-RPC api gateway.
  - Using D3.js to write monitoring for internal deep learning training, using React to develop internal cloud interface.
- 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.
  - Application technologies include ElasticSearch, Redis, Django, crawlers and their scheduling, front-end side includes React, D3.js, Material Design
- Institute of Computing Technology, Chinese Academy of Sciences** Beijing  
*Software Engineering Intern* Dec 2016 - Jan 2017
  - In the group of Yuzhong Sun, responsible for the development of a big data platform project (non-public) in the group, during which read some big data papers.

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**COMPETITION EXPERIENCES**

- American Mathematical Modeling Contest / 2nd prize ( Honorable Mention )** Feb 2016
  - Applied KNN model to build Algeria's available water resources, medical investments efficiency model
- Amazon AWS Hackathon, Beijing / 3rd Prize ( team leader )** Sep 2016
  - Used Golang and Javascript development via gRPC, React and Docker to implement a sensor monitoring system.
- 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

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**AWARDS**

- Renmin third prize scholarship** Jul 2015

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**SKILLS**

- Familiar with traffic distribution services, with rich experience.
- Skilled in Go, familiar with Python, C, Javascript, Ruby
- Skilled in data structures and algorithms, web protocol, database
- Familiar with distributed system principles, Raft protocol, database principles
- Language: Mandarin(native speaker), English (CET-6), Japanese (N2)

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## 教育背景

- 北京化工大学  
理学院 / 应用化学

北京  
2014.9 - 2018.7

## 实践经历

### 字节跳动

后端工程师

北京  
2018.6 - 至今

- 负责字节跳动旗下最大垂直业务懂车帝的基础+直播两大业务线的研发工作 (包含了所有Feed, 直播, 图文视频详情页, 私信, 消息, 资源位等服务, 覆盖懂车帝App 75%以上流量及头条系部分汽车相关模块的流量)
- 主导懂车帝服务各级别容灾降级的设计落地, 做到在网层(nginx)稳定的情况下App的基本形态与功能稳定, 在字节系春节等各种导量的流量激增活动中保持各服务稳定可用
- 优化feed分发服务与重构频道分发服务, 使用户频道个性化, 丰富关注, 精选等频道, 优化feed召回架构与推荐消重结构, 丰富feed元素, 提升feed效果, 整体改进了feed产品架构, 显著提升分发效率
- 主导资源位投放服务(包括功能小球, banner, 弹窗等)的设计落地, 采用规则引擎应对各场景定向需求, 开发独立的Protobuf Generator应对各场景不同的数据结构, 框架限制, 并满足其向后扩展性, 对投放素材及规则采用工单制, 并增加测试状态, 保证投放操作安全性
- 主导定向站内信投放服务的设计落地, 采用图数据库等实现用户定向召回, 利用消息队列削峰, 并在每一阶段设计限流降级保护下游安全稳定, 实现百万级站内消息分钟级别投放

### 百度(人工智能部 知识图谱组)

算法实习生

北京  
2017.5 - 2017.9

- 在Hadoop平台上使用朴素贝叶斯方法对已有数据进行数据挖掘, 新增300万的知识图谱连接数据, 正确率在95%
- 使用内部深度学习框架LegoNet应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

### 旷视科技(Face++)

软件开发实习生

北京  
2016.6 - 2016.10

- 主导基于Protobuf IDL的网关生成器. 基于Protobuf Generator, 生成完整RESTful-RPC的api gateway
- 使用D3.js编写了内部深度学习训练的监控, 使用React开发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
- 应用技术包括ElasticSearch, Redis, Django, 爬虫及其调度, 前端包括React, D3.js, Material Design

### 中国科学院计算研究所(计算机体系结构国家重点实验室)

实习生

北京  
2016.12 - 2017.1

- 在孙毓忠老师组, 负责组内某大数据平台项目(非公开)开发工作, 期间了解部分各大数据平台原理

## 比赛经历

- 美国数学建模大赛(MCM/ICM)(队长) / 二等奖(Honorable Mention) 2016.2
  - 巧用Kmeans方法对取水点建模, 并基于灰色系统理论进行建模, 对阿尔及利亚的可用水资源, 医疗投入进行模型优化
- 亚马逊AWS Hackathon Beijing(队长) / 三等奖 2016.9
  - 应用Golang + Javascript开发, 使用了Grpc, React, Docker技术 基于JSON 配置的sensor监控服务
- 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

- 对流量分发型业务熟悉, 有丰富经验
- 熟悉使用Go, 掌握Python, 了解 C, Javascript, 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
- 熟悉分布式原理, Raft协议, 数据库原理
- 语言: 英语(CET-6), 日语(N2)