

# SHENGWU ZHAO

Navigation, Guidance and Control

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## 🎓 EDUCATION

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<b>School of Automation, Beijing Institute of Technology</b> <i>PH.D. student</i> in Control Science and Engineering	Sep. 2020 – Jul. 2026
<b>School of Xuteli, Beijing Institute of Technology</b> <i>Bachelor student</i> in Engineering, Rank: 4 <sup>th</sup> /13	Sep. 2016 – Jul. 2020

## 👥 PROJECT EXPERIENCE

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<b>Big Data Analysis Platform</b> ( <a href="http://159.226.40.104:18080">http://159.226.40.104:18080</a> )	Oct. 2015 – Mar. 2016
<ul style="list-style-type: none"><li>Developed distributed algorithms(CART/GBDT/GBRT/RF) on Spark.</li><li>Finished data mining components(Feature-Indexing/Feature-Merging/Feature-Normalization/Scoring).</li></ul>	
<b>China Telecom Big Data Application Contest (1<sup>st</sup>/1112; Team Leader)</b>	Dec. 2015 – Mar. 2016
<p>The goal of this contest is to predict views of users with ten sites succeeding, according to four hundred million user-behavior historical records(25.38G).</p> <ul style="list-style-type: none"><li>Proposed and implemented a multi-target regression algorithm on Spark. Optimized F1-score 0.8%.</li><li>Designed and developed a probability ranking model for user classification. Optimized F1-score 0.6%.</li></ul>	
<b>SIGHAN-2015 Chinese Spelling Check Task (1<sup>st</sup> Place)</b>	Mar. 2015 – May. 2015
<p>The goal of this task is to detect and correct spelling errors on Chinese essays.</p> <ul style="list-style-type: none"><li>Handled this task with a unified framework which consisted of candidate generating, two stage candidates re-ranking and global decision making.</li><li>Finished candidate generating model and two stage candidates re-ranking model. Optimized F1-score 18%.</li></ul>	

## 🏢 INTERN EXPERIENCE

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<b>DiDi Research Institute</b>	Jul. 2016 – Sep. 2016
<ul style="list-style-type: none"><li>Developed taxi dispatching system which used to balance the supply and demand between urban areas.</li><li>Reconstructed the log system of dispatching based on Kafka and MySQL.</li></ul>	
<b>Baidu Online Network Technology(Beijing) Co.,Ltd</b>	Dec. 2013 – May. 2014
<ul style="list-style-type: none"><li>Completed the multi-threaded development of LiveWDBBroom, improved the efficiency by two times.</li><li>Completed the development of the Problems-Tracing Platform which was put into service.</li><li>Passed the examination of Code Master(C++), certified as Good Coder.</li></ul>	

## 🏆 ACADEMIC COMPETITIONS

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<i>1<sup>st</sup> Place</i> Awarded in China Telecom Big Data Application Contest	Mar. 2016
<i>1<sup>st</sup> Place</i> Awarded in SIGHAN-2015 Chinese Spelling Check Task	Jun. 2015
<i>1<sup>st</sup> Place</i> Awarded in China College Students Computer Games Competition	Nov. 2013
<i>1<sup>st</sup> Prize</i> Awarded in China College Students Computer Application Contest	Nov. 2013
<i>1<sup>st</sup> Prize</i> Awarded in "LanQiao Cup" Software Development Contest(Beijing Division)	Apr. 2012
<i>Silver Medal (17<sup>th</sup> / 200)</i> Awarded in ACM-ICPC Asia Beijing Regional Contest	Nov. 2015

## ⚙️ SKILLS

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- Skilled in C++, Scala, Shell. Familiar with data structures and algorithms and had good programming style.
  - Experienced in development of distributed machine learning algorithms.
  - Strong theoretic knowledge on data mining and machine learning.

# 侯建鹏

求职意向: 机器学习 | 软件研发

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## 🎓 教育背景

中国科学院计算技术研究所 (保送) 硕士, 计算机软件与理论, 排名: 5% 2014 – 2017  
北京科技大学 学士, 计算机科学与技术, 排名: 4<sup>th</sup>/124 2010 – 2014

## 👨‍💻 项目经历

**BDA 大数据分析系统 (<http://159.226.40.104:18080>)** 2015.10 – 2016.03

- 作为 BDA Lib 核心开发者, 在分布式计算框架 Spark 上实现了 CART/GBDT/GBRT/RF 算法的分布式版本, 同时完成了这些算法单机版本的开发。
- 实现了 BDA Studio 中需要的数据挖掘基本组件 (包括特征索引、特征合并、特征选择、特征值归一化、模型输出结果评分等功能), 并构建真实场景的应用实例。

**中国电信大数据竞赛 (1<sup>st</sup>/1112; CNY 200,000; 队长)** 2015.12 – 2016.03

根据海量用户行为数据 (大于四亿条, 25.38G), 预测用户接下来一周对十个视频网站的访问量。

- 基于 Spark 分布式计算框架, 提出并实现了 MTGBM 多目标回归算法, 使得 F1 值提升 0.8%。
- 提出并实现了用于用户分类的概率排序模型, 使得 F1 值提升 0.6%。

**SIGHAN-2015 Chinese Spelling Check Task** 2015.03 – 2015.05

该评测任务是对繁体中文进行拼写检查, 给出正确的拼写结果。

- 实现候选生成排序模型: 根据同音、近音、形近字, 为句中每一个繁体字生成候选, 并打分排序。
- 实现两轮候选重排序模型: 采用简单特征进行预排序, 在第一次排序的基础上结合复杂特征进行第二次排序, 以此提高排序效率。最终取得第一名, F 值超出第二名 18%。

## 🏠 实习经历

**滴滴研究院 智能平台部 / 算法工程师** 2016.07 – 2016.09

- 完成专车调度系统开发、测试并上线, 实现对城市各区域专车供需不平衡状态的动态调整。
- 基于 Kafka 及 MySQL 完成专车调度日志系统重构, 解耦子模块间相互依赖, 提高系统可用性。

**百度 网页搜索部 / 研发工程师** 2013.12 – 2014.05

- 完成 livewdbbroom 工具多线程开发, 通过测试并上线, 效率提升 2 倍以上。
- 完成离线时效性日志体系建设及离线时效性问题追查平台建设, 并上线。
- 通过 Code Master(C++) 考试, 获得 Good Coder 认证。

## 🏆 学术竞赛

冠军 (1<sup>st</sup>/1112; CNY 200,000; 队长) 中国电信大数据算法应用大赛 2016.03  
冠军 SIGHAN-2015 Chinese Spelling Check Task 2015.06  
冠军 全国大学生计算机博弈大赛 2013.08  
银牌 (17<sup>th</sup>/200) ACM-ICPC 国际大学生程序设计竞赛亚洲区域赛北京赛区 2015.11  
四强 (4<sup>th</sup>/2293) 阿里巴巴大数据竞赛 “新浪微博互动预测大赛” 2015.12  
一等奖 华北五省及港澳台大学生计算机应用大赛 2013.11  
一等奖 全国软件专业人才设计与创业大赛北京赛区 2012.04

## ⚙️ 个人能力

- 熟悉 Scala、C++、Shell, 熟悉基本数据结构和算法, 有良好的编程风格。
- 有丰富的基于 Spark 分布式计算框架的机器学习算法开发经验。
- 熟悉数据挖掘、机器学习领域基本算法。