

# Bohan Zhang

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## EDUCATION

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### Beijing University of Posts and Telecommunications

Beijing

*Bachelor of Computer Science*

*Sept. 2017 – July 2021*

- Rewards: Second-class Scholarship (top 15%); General GPA: 3.7; TOEFL: 94
- Major Relevant Courses Taken: Computer Networks, Machine Learning, Database System Principles, Operating Systems, Natural Language Processing.

## EXPERIENCE

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### SDE

July 2021 – Present

*AdsCore Team, ByteDance Inc.*

*Beijing*

- Participated in the design of the next generation of creative delivery systems: designed evaluation metrics for extremely sparse feedbacks.
- Participate in the implementation of LightGBM-based online inference system, realized model training and distribution at regular intervals, and reach 500+ QPS.

### SDE Intern

Oct. 2020 – June 2021

*Intelligent Optimization Team, ByteDance Inc.*

*Beijing*

- Cooperated to work on a creative deriving platform. Designed features and NN to reduce unnecessary Ads deriving for over 50%.
- Used SQL and Flink to build a high-real-time posterior data collection system for pre-training models.
- Established TB-level data filtering streams via Redis and Hive, reducing downstream pressure by 23%.

### Research Intern

June 2020 – Oct. 2020

*System Research Group, Microsoft Research Asia*

*Beijing*

- Refined an Auto-ML framework, NNI, as team member on GitHub. Implemented NAS algorithms, eg. DARTS and ENAS.
- Used NAS to help the Bing team improve the text classification model; improved regression score by 5% and decreased the model size by 3%.
- Modified the Tensorflow source code to simulate an environment where a neural network runs on in a distributed way.
- Participated in Practicing Station and design labs for NAS beginners on campus.

### Research Assistant

Apr. 2019 – Aug. 2019

*Tsinghua University*

*Beijing*

- Read papers related to knowledge graph embedding, eg. TransE, TransH and reproduce the experiments.
- Reproduced paper *Is Word Segmentation Necessary for Deep Learning of Chinese Representations*.

## PROJECTS

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### Campus Conference Voting System | Golang, Git, SQL

Nov. 2019 – Apr. 2020

- Developed an online voting system using Gin and put it to use online with maximum Query Per Second over 2000.
- Implemented an OAuth module to get user's identity from Gateway on campus.

### Distributed Lab | Golang, Git

June 2018 – July 2018

- Reproduced MapReduce and Raft using Golang.
- Implemented a URL counter for large-scale dataset. It can complete the processing of GB-level data in less than a minute.

### DNS Proxy | Golang, Git

Mar. 2019 – Mar. 2019

- Increased concurrency performance by opening threads to handle messages.
- Used Golang to implement the DNS protocol and completed a DNS relay with blocking, forwarding, and storing features.

## CLUB AND ORGANIZATION EXPERIENCE

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### **Technical Chair**

Sept. 2018 – June 2019

*Microsoft Student Club*

*Beijing University of Posts and Telecommunications*

- Organized technical sharing within the school, with more than 100 participants.
- Participated in the 2018 Microsoft hackathon, and created a distributed sharing platform with teammates.

## TECHNICAL SKILLS

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Well-skilled programming in Python and Golang.

Familiar frameworks: PyTorch, Tensorflow, Django and Gin; Packages: numpy, sklearn, matplotlib