

EDUCATION

• **Beijing Jiaotong University***B.Eng., Computer Science and Technology*

Beijing, China

September 2017 – June 2021

- **GPA:** 3.42/4.00 (Overall) 3.66/4.00 (Major)
- **Relevant Coursework:** Operating Systems (97%), Computer Architecture (92%), Data Structures (92%), Discrete Mathematics (91%), Database Systems (90%), Object-Oriented Programming in C++ (A), Algorithm Design and Analysis (A)

RESEARCH & WORK EXPERIENCE

• **Research on Recommendation Method based on Factorization Machine***Outstanding Undergraduate Thesis, Advisor: Prof. Ding Ding*

Beijing, China

November 2020 – May 2021

- Optimized and implemented the DeepFM model with PyTorch to predict QoS values (response time, throughput, etc.) of distributed cloud services in data-sparse scenarios.
- Improved accuracy by 12% in MAE / 7% in RMSE over other prediction methods on a large-scale real-world dataset WS-DREAM.
- Studied the effects of hyperparameters (i.e., feature combination, embedding size, neural network shape) on the model performance.

• **ByteDance Ltd.***Software Engineer Intern – TikTok*

Beijing, China

June 2020 – October 2020

- Developed a variety of feature styles with Objective-C and Swift, performed AB test to choose the best style.
- Implemented a resource preloading API, which reduced the size of installation package by 15%; Developed an image cache with NSCache, which reduces images loaded asynchronously and brings a smoother user experience.
- Solved historical problems of user behavior collection (missed reports, inconsistent data format, etc.)
- Fixed UI adaptation issues on different iOS versions and devices.

• **Beijing Jiaotong University ACM-ICPC team***Student Coach*

Beijing, China

June 2018 – June 2021

- Lectured topics in competitive programming including graph theory, data structures and computational geometry.
- Organized six campus programming contests between 2018 and 2021 and served as problem proposer.

PROJECTS

- **IntelligentAnnotationSystem:** A set of intelligent system for electronic medical record characteristics extraction. Including Android app, front-end and back-end. Deployed in more than 10 hospitals and research institutes.
- **12309:** An implementation of railroad information management system. Developed with Node.js, Express, Vue.js, Bootstrap and MySQL. Using separated front-end and back-end structure.
- **qhhelper:** A one-click programming contest test data generator with GUI. Developed with Qt and C++.
- **iFree Studio - Fly:** An Android mini-game like Flappy Bird, developed with Java.

SELECTED AWARDS

- **1st Place (out of 1147), Programming Ability Test (Advanced Level)** *Dec 2020*
- **Silver Award, 2020 Group Programming Ladder Tournament (Top Level)** *Dec 2020*
- **Third Prize, 2020 National Computer System Competency Competition (Compiler Design)** *Aug 2020*
- **Silver Award, The 2019 ICPC Asia Shanghai Regional Contest** *Nov 2019*
- **Silver Award, The 2019 ICPC Asia Nanjing Regional Contest** *Oct 2019*
- **Silver Award, The 2019 ICPC Xi'an China National Invitational Programming Contest** *May 2019*
- **First Prize, 2019 Lan Qiao Cup Programming Contest (C/C++ University Group A)** *Mar 2019*
- **Bronze Award, 2018 China Collegiate Programming Contest (CCPC) Qinhuangdao Site** *Sep 2018*

PROGRAMMING SKILLS

- **Languages:** Not limited to any specific language, and experienced in C/C++/Python/JavaScript/Objective-C.
- **Technologies:** iOS SDK, Android SDK, Qt, Flask, Node.js, Vue.js, Bootstrap, PyTorch, NumPy, Neptune.ai, Git