

# Jaziel Xu

JUNIOR STUDENT · DATABASES

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*"I aim to find new algorithms for people to extract information from data streams. "*

## Education

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### Peking University

#### Double major in Physics and Computer Science Expected to graduate June 2019

I am currently a third-grade student at Peking University, I devoted myself evenly in the two majors and got a overall GPA of 3.5 according to my college scoring system.

I decided to pursue Computer Science as my main focus last year. Now, I already joined Professor Xiaoming Li's research group, improving algorithms for data streaming tasks.

I graduated from Beijing No.4 high school which is considered to be one of the best high school in Beijing. I was trained as a member of the school team to compete in the The International Physics Olympiad (IPHO).

Before high school, I developed a lot of hobbies and interests. I attend music and Piano lessons at Central Conservatory of Music in Beijing. When I entered high school, my piano skill reached the level of professional player and I attended the selective trial for International Smetana Piano Competition. Now, I play in clubs at school and studied music theories as a hobby.

## Research experience

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My main focus are data streaming algorithms and machine learning.

I am now in a research group of the Institution of network computing and information systems at my school. During the previous semester, I worked out a improved algorithm for the frequency estimation problems in computer networks, using probability-based adding to make better use of the memory.

Other than that, I did some projects using learning algorithms with my teammates, including Chinese word segmentation and verification code recognition. In these projects, I got a general knowledge of the basic learning algorithms like SVM, KNN and perceptrons, and also, deep learning algorithms like CNN.

## Skills

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I am a bilingual in Chinese and English. I feel comfortable doing academic reading, writing and speaking using both of these two languages, as I got 30 out of 30 in TOEFL reading section and 29 in listening.

### programming

For programming languages, I use C++ on a daily basis and I also could code in Python, making use of those powerful packages and libraries.

I did quite a lot of Online-Judge coding problems and also actual projects so I believe I am able to write good codes in these languages. Since I also major in Physics, I know other softwares including Mathematica, Matlab and ROOT, a modular scientific software framework.

## **hobbies!**

I have a lot of hobbies! Probably because I had a wide range of interests starting from an young age, I like classical music very much and I am quite skillful at playing the piano. I also understand basic music theories, especially in harmonic analysis and polyphonic music like the fugues by J.S. Bach. I like calligraphy, in both English letters and Chinese characters. I am also a fan of the game of chess

## **Honors and awards**

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### **China Undergraduate Physics Tournament, 2016.5**

third price and was awarded with complete set of Series in Theoretical Physics by Landau.

### **31<sup>st</sup> Chinese National Physics Olympiad**

participate representing Team Beijing and won third price.