

Jaziel Xu

JUNIOR STUDENT · DATABASES

Peking University, No.5 Yiheyuan Road Haidian District, Beijing, P.R.China 100871

☎ (+86) 18510032616 | ✉ jaziel_xu@pku.edu.cn | 🏠 Jazielxu.github.io | 🌐 <https://github.com/JazielXu>

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

Education

Peking University

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

I am currently a junior student at Peking University, Beijing, China. I am currently pursuing a degree in Physics and Computer Science. Throughout my undergraduate career, I have diligently devoted myself to these two areas of study and earned an overall GPA of 3.5 according to my college scoring system. I decided to pursue Computer Science as my main focus last year. In my myriad of extracurricular activities, I am participating in Professor Xiaoming Li's research group, improving algorithms for data streaming tasks.

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

When I entered high school, my piano skills reached the level of professional player and I attended the selective trial for International Smetana Piano Competition. Now, I play in the piano club in Peking University and study music theories as a hobby.

Research experience

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 current university. During the previous semester, I worked out an improved algorithm for the frequency estimation problems in computer networks, using probability-based adding to make better use of the memory.

In addition, I completed projects using learning algorithms with my research teammates, including Chinese word segmentation and verification code recognition. In these projects, I gained general knowledge of the basic learning algorithms like SVM, KNN and perceptrons, and deep learning algorithms like CNN.

I recently joined GitHub and uploaded my former projects. The link of my GitHub homepage is listed at the end of this page.

Skills

When it comes to languages, I am a bilingual in Chinese and English. I feel comfortable in doing academic reading, writing, and speaking using both of these two languages, as I scored thirty out of thirty in the TOEFL reading section and twenty-nine in the listening section.

In 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 completed quite a lot of Online-Judge coding problems and executed several projects so I strongly believe I am capable of writing exceptional codes in these languages. Since I also major in Physics, I know other softwares including Mathematica, Matlab and ROOT, a modular scientific software framework. I have a lot of hobbies! Harvesting a

wide range of interests that began from a young age, I enjoy classical music very much and I'm very talented 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 am passionate about calligraphy, in both English letters and Chinese characters. I am also a great fan of chess.

Honors and awards

China Undergraduate Physics Tournament, 2016.5

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

31st Chinese National Physics Olympiad

participate representing Team Beijing and won third price.