

## CURRICULUM VITAE

**Name:** Mengyuan Zhu

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### Education:

1. Sep 2009 - Jun 2013: B.S. School of Pharmacy, Shandong University, Jinan, China
2. Aug 2013 - present: PhD Student, Department of Chemistry, Georgia State University  
GPA in GSU Computer Science Courses: 4.15/4.30

### Experiences

1. **No.1 in the National Olympiad in Informatics in Provinces (NOIP), Zaozhuang, China, 2007**  
Annual algorithms competition in Pascal language. My score (total is 100) is 30 points higher than No. 2. I was one of the two people representing Zaozhuang city for the province competition.
2. **Website initiator, full-stack developer in School of Pharmacy, Shandong University, Jinan, China, 2009**  
I developed everything including the user interface, network, data modeling, etc. for the Student Union of School of Pharmacy, Shandong University.
3. **Microsoft Office plugin developer, People's Bank of China, Zaozhuang, China, 2010**  
According to the custom's need, a VBA plugin was developed and employed for PBC internal use.
4. **System administrator of Work-study program in School of Pharmacy, Shandong University, Jinan, China, 2010**  
The administrator for school servers/desktops. Main works include hardware fixing and server content modifications.
5. **Chemistry related software developer, Department of Chemistry, GSU, Atlanta, GA, USA, 2013-2016**  
I developed a series of software for chemistry lab use. Many technologies were used including machine learning (SVM, ANN, DT, NB, etc.), OpenGL, mobile development and cloud computing.
6. **Cluster/GPU platform developer, GSU, Atlanta, GA, USA, 2014-2016**  
Help IS&T people to assemble hardware, compile programs, test and evaluate performance.

### Skills

1. **Programming language:** Python (extensive hands-on experiences); C (proficient)
2. **Web programming:** HTML, CSS/Bootstrap, JavaScript/jQuery, PHP/Laravel
3. **Database:** SQL/MySQL/SQLite
4. **GUI software development:** Qt/C++
5. **Programming platforms:** Windows, Mac, Ubuntu/Fedora/CentOS/RHEL, AIX
6. **Mobile development:** C#/XAML(proficient); Swift(familiar)
7. **Parallel programming:** MPI, CUDA and OpenMP

### Honor, Awards and Recognitions

1. 3<sup>th</sup>Shandong University Young Scientists Award (2012).
2. Shandong University Research and Innovation Scholarship (2012)
3. Chenxin Scholarship (2013)

4. 13<sup>th</sup> "Challenge Cup" National Science and Technology College of extra-curricular academic competition. Shandong University Grand Prize (2013)
5. XSEDE Student Campus Champion (2015 - present)
6. XSEDE 15 Travel Grant, St. Louis, MO, July 26<sup>th</sup> – 30<sup>th</sup> (2015)
7. Cloud Computing Internal Grant, Georgia State University (2015-2016)

### **Open-source Software**

1. QVector: Virtual screening for chemical sensors (Qt/C++): <https://github.com/MengyuanZhu/QVector>
2. QADMET: Compound property prediction (Qt/C++): <https://github.com/MengyuanZhu/QADMET>
3. Drug plasma protein binding prediction (Python): <https://github.com/MengyuanZhu/PPB>
4. CSS game (CSS, modified work): <https://github.com/MengyuanZhu/Hit-Captian-America>
5. Drug pharmacokinetics parameters prediction (Python): [https://github.com/MengyuanZhu/PK\\_predict](https://github.com/MengyuanZhu/PK_predict)
6. Ensemble docking post-process script (Python): <https://github.com/MengyuanZhu/Docking-scoring>
7. Checklist for security (PHP): <https://github.com/MengyuanZhu/Checklist>

### **Presentations at Conferences**

1. XSEDE 15, July 26<sup>th</sup> – 30<sup>th</sup> 2015, St. Louis, MO, USA. (Poster)

### **Professional Membership**

1. American Association for the Advancement of Sciences
2. Institute of Electrical and Electronics Engineers Student Member
3. Association for Computing Machinery Student Member