

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. 3thShandong University Young Scientists Award (2012).
2. Shandong University Research and Innovation Scholarship (2012)
3. Chenxin Scholarship (2013)

4. 13th "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 26th – 30th (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
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 26th – 30th 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