

Peng Qi

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Education

Degree Pursued: Bachelor of Engineering
GPA, Ranking: *Freshman:* 86.27%, 33.90%
Major Courses:

University: Tsinghua University
Sophomore: 89.00%, 16.59%

Major: Computer Software
Junior: 91.16%, 5.08%

Advanced Data Structure	99	Computer Organization and Design	85
Principles of Compiler Design	97	Principles of Database Systems	92
Formal Language and Automata	99	Introduction to Artificial Intelligence	96
Elements of Algorithm Design and Analysis	90	Software Engineering	92

Research

Keywords: Machine Learning, Deep Learning, Data Mining

- **Short Text Classification with Universal Knowledge Base**
(2011.3-2011.8) @ Institute of Information Systems and Engineering, School of Software
Instructor: Prof. Xiaoming Jin Co-operator: Dr. Dou Shen
- **Joint Junction Detection in Model Libraries (Undergraduate Thesis)**
(2012.2-Present) @ Institute of Computer Graphics & Computer-Aided Design, School of Software
Instructor: Prof. Yu-Shen Liu
- **Understanding Higher-level Features of Auditory Data with Deep Neural Networks**
(2011.8-Present) @ State Key Lab of Intelligent Technology and Systems, Computer Science Department
Instructor: Prof. Xiaolin Hu

Selected Projects

Keywords: Team coordination, Problem-solving, Programming Capability, UI Design

- **Tiandi 360 Survey System**
Designer of the database, and core developer of data access layer and business logic
- **Office Website for Tsinghua Network Support Center**
Developer of business logic and participated in UI design
- **Quanr Microblog (with OAuth SDK and mobile client)**
Team leader. Mainly in charge of business logic, UI design, and all report presentations
- **TexTriBute: A Text Retrieval System under Distributed Framework**
Core business logic developer. Also proposed the algorithm for generating searching snippets
- **Semantic-Directed LR Grammar Analyzer**
Developer of the semantic-directed analysis part, which enables the analyzer to be used to fulfill some tasks of real-world compilers
- **Regular Language Analyzer (with automata simplification and visualization)**
Developer of the Regular-Language-to-NFA part. Also worked on generating source .dot code for visualization (with GraphViz)
- **Economical Road Construction Planning Based on Geographical Information**
Modeled the real problem, implemented algorithm for shortest-path, and developed a visualization module

Honors

Keywords: Excellence of Study, Contest Awards

Scholarships

- **2011** National Scholarship (2 out of 59 in the grade)
- **2010** Citibank Scholarship (Only top 10 students in the grade are eligible)
- **2009** Ge-Ru Zheng Scholarship (for excellence in study)
- **2008** Freshman Scholarship (3rd of Guizhou Prov. in Nat'l College Entrance Exam)

Awards

- **2011** Third Prize in the 4th Tsinghua Software Design Contest
- **2010** Award of Merit in the 3rd Tsinghua Software Design Contest
- **2010** Third Prize of Winter Practice Reports (Investigation Report in Tianlong, Guizhou)
- **2009** Second Prize in National College Students' Contest in Physics (Non-Physics-Major Group)
- **2008** Third Prize in the 10th Team A.I. Contest (Ranked 5th)

Social Experiences

Keywords: Leadership, Team Cooperation

Volunteer Services

- **2011** Volunteer of Tsinghua University's 100th Anniversary
- **2010** Investigation of local traditional drama in Tianlong, Guizhou
- **2009** Volunteer Math Teacher at Gou Diao Yan Village Elem. School, Guizhou Prov.
- **2008-10** Primary teacher of my high school's summer school of Olympiad in Informatics (3 times)
- **2008-09** Returned as an honored alumnus to give lectures to high school students (2 times)
- **2008** Computer T.A. in Shu-Ren Elem. School for Migrant Workers' Children, Beijing

Social Services

- **2011** Vice President of Student Union (in full charge of artistic activities and files, and the office)
- **2010** Chief of Student Union Office (in full charge of the Union's regulations and account)
- **2009** Vice Director of Development Dept. of Student Union (in charge of activity planning and document sorting)
- **2009** Vice Director of Dept. of Tech. of Students' Sci. & Tech. Assoc. (held 3 academic lectures on campus)
- **2008** Member of Dept. of Contest Affairs (Preparation for the 2nd Software Design Contest)

Skills

English

- **GRE(V/Q/AW):** 580(79%) / 800(94%) / 5.0(87%)
- **TOEFL iBT(Total/R/L/S/W):** 115/30/29/26/30

Programming Capability

- **Languages:** C/C++, Java, C#, SQL, HTML/CSS, JavaScript, MATLAB, etc
- **TopCoder rating:** 1119 (constantly improving)

■ For more complete, up-to-date information of mine, please visit my homepage at: <http://qipeng.github.com/>