

# Lei Tang

Master of Science in Engineering, Tsinghua University

[i@tanglei.me](mailto:i@tanglei.me)

(+86)186-1297-8248

<http://tanglei.me>

## Education background

- 2008.9 - 2012.7, software engineering, bachelor of engineer, [school of software, Central South Univ.](#)
- 2012.9 – 2015.7, software engineering, [master of engineer \(Full scholarship\), school of software, Tsinghua Univ.](#) An excellent thesis for Master's degree

## Computer skills

- The National Qualification Certificate of Computer and Software Technology Proficiency, Software Development Engineer (Intermediate Level), 2010.5. System Architect (Advanced Level), 2010.10 ([2<sup>nd</sup> in Hunan Province](#))
- Programming languages: Scala(Play, 1.5 years at Creditease), C++ (60k+ lines, 2 years), Java (J2EE+Android, 2 years), PHP (1/2 year at [Tencent](#)) and Python (1/2 year at [Umeng](#));
- Solid computer background, familiar with basic data structures and algorithms, Computer Graphics algorithms;
- Familiar with Web development, MVC framework, used Play/Struts/Spring/Django well;
- Fluency in MySQL/Oracle .etc RDBMS, used Hive/MongoDB/Redis .etc;
- Tools: Mac/Linux, Shell, Vim, VisualStudio, (My)Eclipse .etc
- Strong analytical thinking, problems solving, fast learning and self-driven.

## Awards and Honors

- *National level (5 times):* **National scholarship** for graduate students(2014.10, ¥20000), National scholarship (2010.10, ¥8000), National Encouragement scholarship (2009.10, 2011.10, ¥5000 \* 2), top grant for National University Student Innovation Program (¥ 20000)
- *Provincial level (2 times):* 2<sup>nd</sup> of System Architect Exam, Excellent Graduate Student
- *University level (20 times):* Outstanding scholarship (1%, ¥5000 \* 2), 1<sup>st</sup> Prize scholarship (¥3000 \* 2), Pacemaker to Merit Student (1‰), etc.

## Published Papers

- **TANG Lei**, SHI Kan-le, YONG Jun-hai, et al. Parallel construction for model-adaptive convex bounding polyhedrons [J]. SCIENCE CHINA Information Sciences. (Accept)
- **TANG Lei**, LI Chun-ping, YANG Liu. Statistically Significant Sequential Pattern Mining Applying to Software Defect Prediction [J]. Computer Science, 2013, 40(5): 164-167.
- SHI Kan-Le, YONG Jun-Hai, **TANG Lei**, et al. Polar NURBS surface with curvature continuity[C]//Computer Graphics Forum. 2013, 32(7): 363-370.

## Social Activities

- Monitor of Class 0804 of school of software for 4 years, CSU
- [Vice president of Association for Science and Technology, school of software, CSU](#)
- Vice minister of Department of Practice, Youth League Committee of school of software, THU
- [Founder and 1<sup>st</sup> president of Chinese Flute Association of Tsinghua Univ. \(ThuFlute\)](#)

## Work experiences

### Creditease Big Data Innovation Center

2015.7 - now

- Keywords: *Scala, Playframework, P2P, FinTech*
- Works: Referring to the transaction data, 商通贷 provides online realtime credit services for E-commerce vendors. As a core developer, my main work is as follows:
  - **WebSqlTool**: Makes it easy for dev/op to sign on to servers, to query using plain sql on databases of MySQL/Oracle/Hive. A small monitor system on data change. (*Akka, Quartz, jQuery/Bootstrap*)
  - Main process of the platform: The platform is the entry of the business, mainly including data crawling, such as Lazada, loan amount estimation and the audit process. Furthermore, some work on task system, including activities, SMS/bonus sending and the tracking system of the background. (*Akka, Cron, RESTfulAPI, Hive, Redis, Sqoop*)
  - **Partner system**: Design 3 strategy for partners, links, iFrames and open APIs.
  - **Statistic System/Gateways**: The statistic system helps to us know more about the users. Refactor and the maintenance of SMS, e-mail gateway. (*SQL, SOAP/RESTful, Cron*)
  - Furthermore, I drive the team to take the Code Review into action, develop the specifications for development and product release to improve the stability. (*Jenkins/Wiki/Lain/Release*)

### Institute of CG&CAD, Thsoft InfoTech

2013.1 - 2015.1

- Keywords: *research, computer graphics, C++*
- Works: Maintaining an open source c++ framework called [gppframework](#), developing an efficient cross-platform 3D visualization solution [Nebula](#) and Nebula Android, geometry intersection algorithms in GEMS8, GDML format IO module of GEMS8, [BimViewer](#) middleware.

### Innovation Works (UMeng)

2012.7 - 2012.9

- Keywords: *Startup company, data processing, Python*
- Works: [UMeng](#) is the leading mobile app analytical platform in China. Developing a tool to analysis the competitor SDKs, [UMTrack](#), using python.

### Tencent (QQ)

2011.7 - 2012.1

- Keywords: *Big company, big data, Php*
- Works: As a back-end web developer in [Pengyou.com](#), using Php. Learn a lot different from school and something about big data processing, such as table and database split technology and so on.

## Course projects

### Reality-Oriented Mobile SNS System

- *Description*: This project is supported by top grant for National University Student Innovation Program (¥ 20000). It is a Mobile social network system used the technology of Bluetooth, GPS, gravitational acceleration sensing.
- *Remarks*: As a team leader, working on the research of initial model and the main author of the application documents. Project management and initial architecture, also code for the Android Bluetooth

module. The first author of our final research project paper published in Computer system and application.

### **IChat System**

- *Description:* The Java course project, a QQ-like system including single chat, group chat and voice and video chat. Techniques include C/S framework, oracle, socket, multiple thread and swing.
- *Remarks:* As a team leader, working on the initial system architecture, project management and the video chat module. This project was to check our knowledge of the Java SE, and had a feeling on how to code on a project.

### **School Information portal based China mobile Feixin**

- *Description:* This project was a website based on school information, after analysis the protocols of Feixin, we developed a Web Feixin to schedule reminder, such as send the class information to your mobile in the morning bless your friends on his birthday and .etc. Techniques include Struts, Hibernate, HttpClient and HtmlParser and so on.
- *Remarks:* Mainly worked on the Feixin module and crawling and analysis the information from the educational management system website. After this project, we know the process on how to establish a website.