

Qingwen GUAN

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<https://github.com/buaagg>

Education

- **Beihang University** Beijing
M.S. Software Engineering 2012 - 2015
- **Beihang University** Beijing
B.S. Software Engineering, B.S. Applied Mathematics 2008 - 2012

Awards

- **ACM-ICPC World Finals 2013** Rank 27
- **ACM-ICPC Asia Regional 2012** Rank 5
- **Google Code Jam 2013** Top 500
- **Facebook Hacker Cup 2014** Top 500
- **Standard Chartered Code Marathon 2013** Top 3
Team Project: Data Mining and Analysis of web log
- **Kingsoft Season Game Studio Programming Challenge 2013** Rank 5
Design and implement algorithm to solve the given problems by oneself
- **Star of Perfect National Invitation Contest 2013** Rank 4
Team Project: Develop applications on smart phone

Working Experience

- **Microsoft Research Asia - Vision Computing Group** Nov.2013 - Now
 - Rectify Curved Paper documents via Robust PCA Algorithm.
 - Implement and Optimize algorithm based on the paper “Unwrapping Low-rank Textures on Generalized Cylindrical Surfaces”.
- **Microsoft Research Asia - System Research Group** Aug.2013 - Oct.2013
 - Click Through Rate(CTR) Predict of Bing Search via Logistic Regression Algorithm.
 - About 2TB data, XXX lines of C++11 code, boost, omp, MPI.
 - It run 24 hours by hundreds of servers before, while it run 2 hours by only 20 servers now.
 - Refactor the code from C# to C++ and make the best of the physical memory.

Skills

- **Development:** C/C++, QT, MPI, Java, C#, Python.
- **Interest:** Algorithm, Math, read matrix67's blog, visit zhihu.com
- **Humorous:** Perform Funny Skits before thousands of students on New Years' Party for many times.

Projects

- **Presentation Aid System Based on Kinect** 2011-2012
 - Helping to make a presentation more vividly. Making it easier to control the elements in the ppt by both gestures and actions. Most Importantly, allowing the user to draw and write on the screen directly without any equipment in hand.
 - My work was algorithm design and implementing. About 10 thousand lines of code in C#.
 - Outstanding in the Student Research Training Program(SRTP).

Campus Experience

- **Coach of BUAA ACM/ICPC team** 2011-2013
 - Maintaining web servers for the team.
 - Organizing and providing problems of BUAA Programming Contest.