BIYE JIANG

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EDUCATION

Tsinghua University

Since August 2009

B.Eng in Computer Science & Technology

Overall GPA: 90.26 Rank 15/137 Major GPA: 91.47

RESEARCH INTEREST

Intelligent Interface, Data Visualization, Graphics, Information Retrieval

I am interested in providing high-quality information interfaces that improve our ability to make sense of large and complex data

RESEARCH EXPERIENCE

Research Intern on Interactive Image processing

Sep 2012 - Present

Advisor: Prof. Kun Xu and Prof. Shimin Hu

Graphics Computing Group, Tsinghua

- · Working on Inverse Image Editing, cooperated with WangJue from Adobe Inc.
- · This project focus on recovering image editing operator given the edited image and the source.

Stanford Undergraduate Visiting Research Program

Summer 2012

Advisor: Prof. Jeffrey Heer

Visualization Group, Stanford

- · Project: Interactive Visual Analysis of Large Scale Geographic Data using WebGL
- · Our novel approach applies WebGL-based parallel computation to enable rapid interaction in browsers.
- · Much faster for data aggregation and rendering comparing to conventional SVG approach.
- · Dynamic rendering is more flexible comparing to Mircosoft HotMap

Student Research Training Program

Apr 2011 - Jan 2012

Advisor: Prof. Kun Xu

Graphics Computing Group, Tsinghua

- · Basic research skills training. Working on Image-Processing projects with graduate students.
- · Experience in Texture synthesis, Image Blending, Saliency Model etc.
- · Submitted paper: Change Blindness Images (Focusing on an interesting human vision phenomenon)

SELECTED COURSE PROJECTS

Service Oriented Software Design and Development

-Build a web service to compute words' relationship with the help of WordNet and HowNet

Search Engine

-Build our own search engine using Lucene for indexing and Heritrix for web spider.

Database Management

- Implement our own database for TPCC & TPCH test using C++ (Top three in the class)
- Implement a location based data search engine as web service

Computer Architecture Related

- -Build our own CPU with the simplified MIPS16e using VHDL. (Team leader of the group)
- -CUDA programing projects and JWAC Memory Scheduling Championship
- -Simplify OpenCV library for Yocto OS on the Intel Atom platfrom

TECHNICAL STRENGTHS

Computer Languages	C/C++, Java
Tools	OpenCV, We

C/C++, Java, JavaScript, Scala, Python, MATLAB, Assembly, VHDL OpenCV, WebGL, Lucene, D3, CUDA, Hadoop

COMPETITION AWARD

ACM International Collegiate Programming	Contest	2009 - Present	
–Got 8 gold medals (Champion once and Ranked 2^{nd} for 3 times) in Asia Regional Contest			
Baidu A-Star Programming Competition	3^{rd} Place out of over 30,000 conte	stants 2011	
Youdao Programming Competition	5^{th} Place out of over 21,000 conte	stants 2010	

National Olympic in Informatics Competition 6th Place out of 295 contestants 2008

TEACHING EXPERIENCE

Lectures for ACM-ICPC team from Beijing Institute of Technology	May 2011
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-String Matching, Network Flow and Tree Algorithms

Teaching Assistant at Tsinghua University Sep 2009 - Jan 2010

-Fundamentals of Programming

Lectures for Summer School of Olympic in Informatic at LiaoNing Province Jul 2009

-Dynamic Programming and Graph Algorithms

SCHOLARSHIP

ChangHong Scholarship	2012
Sohu Scholarship	2011
ChangHong Scholarship	2010
Freshman Scholarship	2009

SOCIAL ACTIVITY

Vice president in the student association, in charge of **public relations** Experience with **Photoshop** and **Premiere** to design posters and videos Director and editor of two short films made by our own.