

Brian (Baoxuan) Xu

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Education

Master, Computing Science (CS) 90/100	University of British Columbia, Canada	2011.9-2013.5
Bachelor (with distinction), CS, GPA: 3.79/4.33	Simon Fraser University, Canada	2005.9-2011.4
Bachelor, CS, GPA: 3.7/4.0	Zhejiang University, China	Dual Degree Program (DDP)

Awards

Undergraduate Open Scholarship	2010 spring
DDP Essay Competition First Prize (only one First Prize)	2009.3
Dean's Honor Roll at Simon Fraser University	2009.10 & 2009.5
Golden Key International Honor Society member	2009.8
Scholarship and Outstanding students award at Zhejiang University	2008.9 & 2007.9

Publication

True2Form: 3D Curve Networks from 2D Sketches via Selective Regularization,

Baoxuan Xu, William Chang, Alla Sheffer, Adrien Bousseau, James McCrae, Karan Singh

- Conditionally accepted to SIGGRAPH 2014
- Will appear in ACM Transactions on Graphics (Proc. SIGGRAPH)

Technical Projects & Work Experience

University of British Columbia (UBC), Imager Lab 2013.5-2014.2

Science Researcher

- Redesigned the algorithm of my thesis to eliminate the limitation of my thesis and expand to a much wider range of design sketches.
- Redesigned the data structure and added several GUI functions such as redo/undo, copy/paste, scale/mirroring etc.
- Designed and implemented a tailored Newton solver in C++ for my algorithm that can compute the 3D reconstruction almost live, completely removed the dependency on Matlab solver.
- The final work is conditionally accepted to SIGGRAPH 2014 and also in the patent process by University-Industry Liaison Office of UBC

UBC 2011.9-2013.5

Teacher Assistant(CPSC404, CPSC417) & Research Assistant

- Worked with Dr. Alla Sheffer and collaborators from INRIA and University of Toronto on a research project and accomplished my thesis based on it.
- Offered guidance to students on coding and testing during assignments and projects
- Assisted instructor in preparing, designing and grading of coding assignments and exams.

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Technical Projects & Work Experience

Commercial website, Zhejiang Hongda Rubber Company Limited, 2013.3-2013.4
www.hdxj.com, Web Developer

- Designed and built the entire website based on Joomla 2.5

Research In Motion (RIM), Handheld Multimedia Team 2010.5-2010.12

Java Developer

- Worked mainly on fixing bugs of multimedia apps such as music player, video player and all related issues on Blackberry 6.0 system.
- Worked as a prime developer of multimedia apps on Style 9670 to handle requests from other teams.
- Created unit tests and reviewed team members' source code.

University of Toronto, MarkUs Open Source Project 2010.1-2010.8

Web Developer

- Designed and built a new "Flexible Criterion" marking component that evolved both front end web pages using Javascript and back end using Ruby on Rails
- Updated the database scheme to support the new feature.
- Created both unit tests and functional tests.

Galdos System Inc., 3D City Model on Mobile Device 2010.1-2010.8

Researcher

- Developed a demo of 3D city visualization on iPhone 3GS (<http://y2u.be/2toHS5icCT4>) that using technology such as OpenGL ES2.0 shader, BoundingBox and Ray intersection, and utilizing iPhone's multi-touch screen, Gyroscope, Camera, GPS.
- Presented on GeoWeb 2010 Conference in front of a room of geographic specialists.

HSBC Canada, Customer Channel 2009.1-2009.8

Software Engineer

- The pioneer to build and test web application in the team using JSP, RAD, in WebSphere Server.
- Managed the department Sharepoint site, produced weekly-based reports of employee assignments information using MS Access.
- Supported other teams in setting up program environment and created documentation such as workspace setup guides for entire department.

Key Skills

- Mastered in: C/C++(over 6 years)
- Skilled in: Java, OpenGL, Qt, Git/Github, Mac OS X, Linux Ubuntu, (over 2 years)
- Experienced in: OpenGL ES2, Objective-C, PHP, MySQL, SVN, Matlab, Ruby/Ruby On Rails, Python, Html5, JavaScript
- Fluent in English, Mandarin Chinese