

Jia Sun

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Education	<i>Dual Degree Program Candidate for Bachelor of Computing Science</i> <ul style="list-style-type: none">- Simon Fraser University, Canada Sep 2009 - Present- Zhejiang University, China Sep 2007 - Aug 2009 Expected Date of Graduation: Aug 2012 Two Bachelor Degrees from both Simon Fraser University and Zhejiang University
Research Experience	<i>Research Assistant</i> Jan 2011 - Apr 2011 <i>Visualization for Fall Detection</i> Vision and Media Lab, Simon Fraser University, Canada <ul style="list-style-type: none">- Developed a system to visualize the nursing home fall detection video clips, assembled different patient fall videos into a integrated scene- Analyzed video data and integrated with minimum overlapping <i>Graduate Research Based Course</i> Jan 2011 - Apr 2011 <i>Performance Comparison of MPI Workloads on HPC clusters versus Amazon EC2</i> Special Topics in Operating System, Simon Fraser University, Canada <ul style="list-style-type: none">- Designed benchmark sets to run on both academic HPC clusters and Amazon EC2 Cluster Compute Instances to compare the performance- Concluded with node compute capacity has consistent impact on performance, while interconnection has larger impact on cross communication tasks- EC2 Cluster Compute Instances can be competitive with the HPC cluster, at least for median size CPU-intensive MPI applications <i>Graduate Research Based Course</i> Sep 2011 - Dec 2011 <i>Trust-Based Community Discovery for Hierarchical Collaborative Filtering</i> Data Mining, Simon Fraser University, Canada <ul style="list-style-type: none">- New algorithm for discovering the community in social network in order to provide better results for recommendation systems- Took advantage of trust relation between different users for more accurate recommended items, with hierarchical layer decreases the processing time
Academic Projects	<ul style="list-style-type: none">- CoRAL - Collaborative Review Analysis of Literature: visualization for views of collaborative relations of users in Fab4 browser- Movie Tracker: visualization of taste inference in Flixster.com, designed for data mining researchers- Replicated Distributed File System with Transitional Semantics: enabled user to read and modify files remotely, recovery mechanism is implemented- Span Space Render: implemented iso-surface extraction- Ray Tracing Programming- Agent of Backgammon Game: an AI agent to play backgammon- My Family Tree: an SNS family tree website on Django
Work Experience	<i>Network System Support</i> May 2011 - Dec 2011 Research Computing Group, IT Services, Simon Fraser University, Canada <ul style="list-style-type: none">- Developed group feature for Unified, Federated Development Service, implemented ten sets of script to better support the system, managed more than 1500 accounts <i>Blackberry Messenger Software Developer</i> Jan 2012 - Apr 2012 Research In Motion (RIM), Canada
Scholarship and Awards	<i>SFU Dean's Honour of Faculty of Applied Science</i> 2010 <i>SFU Dr. Yu Award for Dual Degree Program Students</i> 2010 <i>Entrance Award of SFU-ZU Dual Degree Program</i> 2009