

## Jia Sun

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<b>Education</b>	<i>Dual Degree Program Candidate for Bachelor of Computing Science</i> <ul style="list-style-type: none"><li>- Simon Fraser University, Canada Sep 2009 - Aug 2012 (expected)</li><li>- Zhejiang University, China Sep 2007 - Aug 2009</li></ul> Two Bachelor Degrees from both Simon Fraser University and Zhejiang University
<b>Research Experience</b>	<i>Research Assistant</i> Jan 2011 - Apr 2011 <i>Visualization for Nursing Home Fall Detection</i> Vision and Media Lab, Simon Fraser University, Canada <ul style="list-style-type: none"><li>- Developed a system to visualize nursing home falls from surveillance videos</li><li>- Three methods developed, one concentrated on color, one used fast forwarding, and the other assembled different fall clips into an integrated scene</li></ul> <i>Research-Based Graduate Course</i> Jan 2011 - Apr 2011 <i>Performance Comparison of MPI Workloads on HPC clusters versus Amazon EC2</i> Mutlicore System, Simon Fraser University, Canada <ul style="list-style-type: none"><li>- Designed benchmark sets to run on both academic HPC clusters and Amazon EC2 Cluster Compute Instances to compare the performance</li><li>- Concluded with node compute capacity has consistent impact on performance, while interconnection has larger impact on cross communication tasks</li><li>- EC2 Cluster Compute Instances can be competitive with the HPC cluster, at least for median sie CPU-intensive MPI applications</li></ul>
<b>Academic Projects</b>	<ul style="list-style-type: none"><li>- CoRAL - Collaborative Review Analysis of Literature: visualization for views of collaborative relations of users in Fab4 browser</li><li>- Movie Tracker: visualization of taste inference in Flixster.com, designed for data mining researchers</li><li>- Replicated Distributed File System with Transitional Semantics: enabled user to read and modify files remotely, recovery mechanism is implemented</li><li>- Span Space Render: implemented iso-surface extraction</li><li>- Ray Tracing Programming</li><li>- Trust-Based Community Discovery for Hierarchical Collaborative Filtering: A new data mining algorithm for discovering the community in social network to provide better results for recommendation systems</li><li>- Agent of Backgammon Game: an AI agent to play backgammon</li><li>- My Family Tree: an SNS family tree website on Django</li></ul>
<b>Work Experience</b>	<i>Network System Support Intern</i> May 2011 - Dec 2011 Research Computing Group, IT Services, Simon Fraser University, Canada <ul style="list-style-type: none"><li>- Developed group feature for Unified, Federated Development Service, implemented ten sets of script to better support the system, managed more than 1500 accounts</li></ul> <i>Software Developer Intern</i> Jan 2012 - Apr 2012 (expected) Research In Motion (RIM), Canada <ul style="list-style-type: none"><li>- BlackBerry Messenger Software Developer</li></ul>
<b>Scholarship and Awards</b>	<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
<b>Extracurricular Activities</b>	<i>Volunteer</i> Sep 2010 Grace Hopper Conference of Women in Computing, Atlanta, United States