MENGTING SUN

http://immengting.com/

5175 Carson St

Burnaby, B.C., Canada, V5J2Z1

Tel: 1-778-829-6046 Email: msa93@sfu.ca

TECHNICAL SKILLS

LanguagesSoftwarePlatforms• C/C++, C#, Java• Microsoft Office• Windows• JavaScript, PHP• Matlab, Tableau• Linux/Unix• CSS/CSS3, HTML5• SQL Server/ MySQL• ActionScript• PhotoShop, InDesign, Flash

EDUCATION

- M.S, School of Interactive Arts and Technology, Simon Fraser University, Canada. (Sept 2011 June 2014)
 Research Orientation: HCI, Visual Analytics, Aesthetic Visualization
 Thesis topic: Exploring Aesthetic Visualization for Promoting Consumer Energy Conservation.
- B.S, School of Computer Science, Simon Fraser University (SFU), Canada. (Sept 2008 April 2011)
- B.E, School of Computer Science and Technology, Zhejiang University (ZU), China. (Sept 2006 June 2008) Degree program: SFU-ZU Dual Degree Program

EXPERIENCES

Intern, BC Hydro PowerSmart, Burnaby, BC, Mar 2014 - present

- Explore gamification techniques for engaging people in exploring energy use and learning about best practices in energy conservation.
- Design and develop web-based energy conservation game for mobile devices with PhoneGap.

Research Assistant, HCSSL Lab, Simon Fraser University, Surrey, BC, May 2012 - Mar 2014

- Designed and explored various visualization tools for real-time residential energy use feedback with informative art approach (sketches, storyboards).
- Developed various web-based visualization prototypes with Java, Javascript (D3.js, jQuery), CSS, PHP and MySQL.
- Designed and conducted user studies; analyzed data using qualitative and quantitative methods.

Teaching Assistant, Simon Fraser University, Surrey, BC, Jan 2012 – Apr 2012

- Course: Introduction to Visual Analytics.
- Mentored undergraduate students in various areas related to the course: programming in Processing/Java, use of Tableau software, data visualization applications.

Research Assistant, EMMIIE Lab, Simon Fraser University, Surrey, BC, Apr 2011 - Aug 2011

• Developed a Flash based visualization system using Flex to help analyze data for a social health game.

Quality Assurance (Co-op), NetApp, Vancouver, BC, Jan 2011 – Apr 2011

• Created a plugin for Wireshark network protocol analyzer to dissect Cloud Data Management Interface metadata.

Junior IT Professional (Co-op), Powerex, Vancouver, BC, Jan 2010 - Aug 2010

- Developed Windows applications with Excel VBA and C# for reporting usage.
- Designed and conducted unit tests (C++) and automated UI tests for various project teams.

Research Assistant, Irmacs Center, Simon Fraser University, Burnaby, BC, Mar 2009 - Dec 2009

- Created a virtual environment with a game engine that features with Wii interaction.
- Developed a 3D narrative data visualization tool for data analysis with different aspects: time, location and frequency.
- Developed GENIUS project: an agent-based decision support system that simulates large-scale urban movement.

PUBLICATIONS

Exhibition

"Seeing information in a new way: Ambient and Artistic Visualization for Residential Energy Use", National Museum of Science and Technology, Ottawa, ON, Canada, April, 2014

Poster

M. Sun, L. Bartram. "Informative Art for Energy Use Feedback", 2013 GRAND (Graphics, Animation, and New Media) Conference, Toronto, ON, Canada, May 2013

Papers

M. Sun, L. Bartram. "Energy Conservation Game: Exploring Alternative Visualizations for Residential Energy Use", 2014 GRAND (Graphics, Animation, and New Media) Conference, Ottawa, ON, Canada, May 2014

- A. J. Park, H. H. Tsang, M. Sun and U. Glässer, "An agent-based model and computational framework for counter-terrorism and public safety based on swarm intelligence", *Security Informatics* 1(1), Aug. 2013
- M. S. El-Nasr, L. Andres, T. Lavender, N. Funk, N. Jahangiri, M. Sun, "IgnitePlay: Encouraging and sustaining healthy living through social games," igic, pp.23-25, 2011 IEEE International Games Innovation Conference, 2011
- H. H. Tsang, A. J. Park, M. Sun and U. Glässer. "GENIUS: A Computational Modeling Framework for Counter-Terrorism Planning and Response". In Proc. 2010 IEEE Intl. Conference on Intelligence and Security Informatics, Vancouver, BC, Canada, May 2010

AWARDS

- Mitacs Internship Award, 2014
- Singapore Technologies Engineering Scholarship, 2006, 2007, 2008
- First-class Scholarship for Excellent Students of Zhejiang University, 2006