Joyce Ho

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EDUCATION University of Texas at Austin

Currently pursuing Ph.D. in Computer Engineering Research interests: Machine Learning / Data Mining Advisors: Dr. Joydeep Ghosh and Dr. Sriram Vishwanath

Massachusetts Institute of Technology

M. Eng in Electrical Engineering and Computer Science B. S in Electrical Engineering and Computer Science

PROFESSIONAL EXPERIENCE

NorthShore University Health System,

Center for Clinical and Research Informatics

Project Coordinator, Research

Create a model to predict a Multiple Sclerosis diagnosis

Developed a cardiac arrest risk prediction model

Lawrence Livermore National Lab,

Global Security

System Engineer

Developed algorithms to detect anomalous activity in network traffic.

Implemented algorithms on a distributed streaming architecture.

Lawrence Livermore National Lab, 9/2004-3/2009

NIF Integrated Computer Control System

Maintenance and Commissioning Tool (MCT) Lead

Managed a group of 2-3 developers: plan software releases, track schedules, gather incoming tool requests, prioritize work, and address technical issues.

Mentored new team members.

Interviewed candidates for positions within the controls system group.

System Engineer – MCT team member

Collected requirements, designed, implemented, and tested software algorithms that automate the calculation and verification of laser system properties.

Collaborated with the image analysis team to leverage existing processing algorithms for use in automation tools.

Microsoft 5/2003-8/2003

Software Development Intern

Designed and implemented the Device Sync Setup Wizard in Microsoft ActiveSync 4.0.

Trimble Navigation

6/2001-8/2001

Advanced Systems Intern

Designed the circuit board to interface between a wireless LAN card and the digital board to a SiteNet 900 GPS receiver for real-time collision prevention software.

2004

6/2012-8/2012

3/2009-8/2011

ACADEMIC EXPERIENCE

Massachusetts Institute of Technology

8/2003-8/2004

Research Assistant

Developed a real-time activity detection system in C++ using two wireless accelerometers, one wireless receiver, and one PocketPC. Designed a rechargeable battery pack to power the PocketPC and wireless receiver for 8 hours.

Stanford University, Computer Graphics Department 6/2002-8/2002

Research Assistant

Designed and implemented voice input into the Interactive Workspace project using IBM's voice toolkit and assisted the development of one-bit LED receivers controlled by a remote source.

PUBLICATIONS

J. Ho and S. S. Intille, "Using context-aware computing to reduce the perceived burden of interruptions from mobile devices," in *Proceedings of CHI 2005 Connect: Conference on Human Factors in Computing Systems*. New York, NY: ACM Press, 2005, pp. 909 - 918.

J. Ho, J. Fisher, J. Gordon, L. Lagin, S. West, "Java Tool Framework for Automation of Hardware Commissioning and Maintenance Procedures," in *Proceedings of ICALEPCS 2007.* Knoxville, TN, 2007, pp. 547.

G. A. Bowers, R. W. Carey, S. A. Daveler, K. B. Herndon Ford, J. C. Ho, L. J. Lagin, C. J. Lambert, J. Mauvais, E. A. Stout, S. L. West, J. M. Fisher, "User Interface Framework for the National Ignition Facility (NIF)," in *Proceedings of ICALEPCS 2007.* Knoxville, TN, 2007, pp. 146.

J. C. Ho, C. H. Lee, J. Ghosh, "Imputation-enhanced prediction of septic shock in ICU patients" in *HI-KDD 2012: ACM SIGKDD Workshop on Health Informatics*. Beijing, China 2012.

C. H. Lee, N. M. Arzeno, J. C. Ho, H. Vikalo, and J. Ghosh, "An Imputation-Enhanced Algorithm for ICU Mortality Prediction" in *Proceedings of CINC 2012: Computing in Cardiology*. Krakow, Poland 2012.

SKILLS

Java, C++, R, Matlab, Perl, Python, SQL, CORBA, Scheme

HONORS

MCD ECE Fellowship (2011), Tau Beta Pi Honors Society, Eta Kappa Nu Honors Society