

LIYAN DAVID CHANG

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EDUCATION

Massachusetts Institute of Technology

Candidate for Bachelor of Science and Engineering in Computer Science
Coursework: Algorithm Design, Linear Algebra, Differential Equations, Real Analysis.
GPA: 5.0/5.0

Cambridge, Massachusetts
June 2012

Illinois Mathematics and Science Academy

GPA: 3.9/4.0

Aurora, Illinois
June 2008

WORK EXPERIENCE

Automation Intern

VMware Inc., VMQA Automation

Authored Perl and STAF software tools to automate the installation of system drivers on remote test servers. Estimated to save VMware over \$100,000 yearly by reducing manual installations done by QA engineers.

Palo Alto, California
June – August 2009

Undergraduate Research - Sixth Sense

MIT Media Lab, Fluid Interfaces Group

Developed C# applications for hand gesture and object recognition, serving as the human-computer interface for a pendant-like camera and pico-projector computing platform to display ambient information on everyday surfaces. This work was presented at TED Conference 2009 by Dr. Pattie Maes and awarded Popular Science's Invention Award 2009.

Cambridge, Massachusetts
October 2008 - Present

Strategic Technologies Intern

Illinois Math and Science Academy

Collaborated with teachers and staff to develop alternative teaching methods to utilize a one-to-one tablet initiative for 600 students. Measured the effectiveness of the proposed teaching methodologies on student engagement.

Aurora, Illinois
June - August 2008

Student Council Technology Coordinator

Illinois Math and Science Academy

Developed the student council webpage using PHP, MySQL, and AJAX technologies to manage student information, provide event calendaring, and allow file uploads for 600 students and 50 staff members.

Aurora, Illinois
2006-2008

PUBLICATIONS

P. Mistry, P. Maes, L. Chang, "Wear Ur World - A Wearable Gestural Interface." In the Proceedings of ACM CHI 2009. (Association for Computing Machinery Special Interest Group on Computer-Human Interaction)

SKILLS

- Fluent in C#, Perl, and Python.
- Proficient in building and maintaining web applications with PHP, MySQL, AJAX, and CSS on Apache webserver.
- Extensive cross-platform experience with Windows, OS X, and Linux.
- Adept with MS Office, including advanced features such as master slides, macros, and pivot tables.
- Expert in Adobe Creative Suite 4, primarily Acrobat, Photoshop, Illustrator, and Premiere.
- Native English, Conversant Mandarin Chinese.

ACTIVITIES

Student Committee on Educational Policy, Faculty Committee on the Undergraduate Program, Photography Club