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KAREN LI

EDUCATION

Massachusetts Institute of Technology (MIT)

Cambridge, MA

- Candidate for B.S. in Computer Science, GPA: 5.0/5.0
- Relevant Coursework: Introduction to Electrical Engineering and Computer Science I; Differential Equations
Fall 2008: Mathematics for Computer Science; Introduction to Electrical Engineering and Computer Science II; Macroeconomics; Microeconomics

2007-Present

Libertyville High School

Libertyville, IL

- GPA: 4.729/4.0; Top 2%; SAT: 2390

2007

RESEARCH EXPERIENCE

MIT Center for Future Civic Media

Cambridge, MA

Software for Environmental and Political Action

September 2008-Present

- Developing web applications using the Django framework. Creating software for networking and collective action to facilitate activism among victims of natural gas and oil companies in Colorado.

Children's Memorial Research Center

Chicago, IL

Cancer Biology and Epigenomics

June-August 2008

- Worked with a graduate student to profile changes in methylation and gene expression in rat chondrosarcoma. Injected rats with 5-Aza-2-deoxycytidine treated tumor cells. Extracted DNA and RNA from tumor samples and performed bisulfite sequencing and rt-PCR. Found that treatment causes demethylation of the midkine gene.

MIT Operations Research Center

Cambridge, MA

Optimizing Drug Combinations in Cancer Treatment

January – May 2008

- Gathered data from clinical trials of cancer drugs to find optimal and perhaps novel combinations of drugs using data mining techniques. Culled information from published articles in scientific journals for entry into Microsoft Access.

MIT Linguistics Lab

Cambridge, MA

Artificial Language Experiment Research Project

October-December 2007

- Collected and analyzed data from sound files to determine how deliberate changes in pronunciation can cause other changes in speech. Measured closure duration and voice onset time using Praat.

LEADERSHIP AND ACTIVITIES

- **MIT Society of Women Engineers Co-Chair of Career Development** – Created and maintained relationships with companies that interest our members. Organized panels, talks, and networking events with industry representatives.
- **MIT Amnesty International** – Coordinated the collection of food donations from local restaurants for our Darfur fundraising dinner, which brought in over \$3000. Helped organize lectures and movies.
- **Xilin Chinese School Teacher** - Taught middle school and high school students SAT math material and taught Math Olympiad problem solving to younger students

AWARDS

- AP Scholar with Distinction; National Merit Finalist
- Science Olympiad - 2nd in State for Astronomy; 3rd for Food Science (2006); and 1st in State for Astronomy; 2nd for Circuit Lab and 2nd for Physics Lab (2007)
- Worldwide Youth in Science and Engineering - 1st Team in Nation in Junior Engineering Technical Society Competition (2006); and individually placed 3rd in state in Biology; served as co-captain (2007)

SKILLS

- **Computer** – Python; some Java and C++
- **Language** – Conversational Mandarin