

# John J. Lee

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## ABOUT

A fast-paced software engineer with experience and passion in large-scale data mining and AI.

## EXPERIENCE

### Google, Inc.

**New York, NY**

*Senior Software Engineer / Technical Lead*

*Summers 2006, 2007; September 2008 – present*

- Designed, built, and launched novel algorithms for Web-scale automated question answering
- Led the data extraction team (6-10 engineers): delivered marked improvements to data quality and improved infrastructure to increase iteration speed by an order of magnitude
- Made critical contributions to all aspects of Q&A products, from large-scale experimentation, infrastructure design, and UI development to productionization, deployment, and logs analysis
- **Launched:** Google Squared (2009), Google Goggles (2009), Google Short Answers (2010)
- **Award:** 2010 Google EngOps Citizenship Award, plus numerous others

### MIT CSAIL Vision Interfaces Lab

**Cambridge, MA**

*Research Assistant*

*January 2005 – June 2008*

- Researched dynamic, adaptive, and large-scale object recognition and image retrieval techniques
- Created a fast open source computer vision library with novel applications to large-scale data sets
- **Launched:** LIBPMK, a widely used software library – <http://people.csail.mit.edu/jjl/libpmk>
- **Award:** 2008 Dimitris N. Chorafas Foundation Award (international)
- **Award:** 2008 Charles & Jennifer Johnson M.Eng Thesis Prize (MIT, 1st place)
- **Award:** 2008 Morris Joseph Levin Award (MIT MasterWorks Symposium)

### Microsoft Corporation

**Redmond, WA**

*Software Design Engineer in Test Intern*

*Summers 2004-2005*

- Developed a novel learning-based method for classifying machines on HD rendering capability
- Built tools to analyze large media playback logs in Windows Vista, reducing debugging time by an order of magnitude
- **Launched:** WMV-HD Rating, a tool to predict system performance of HD video rendering
- **Award:** 2004 Microsoft University Scholarship

### ForSaleByOwner.com

**New York, NY**

*Web Developer*

*Summer 2003*

- Developed a custom CRM solution to help manage 1.5 million home listings
- Worked with customer service staff to build tools to improve customer interaction experience
- Worked with sales staff to build tools find higher-quality leads and track leads more efficiently

### American Red Cross in Greater New York

**New York, NY**

*Web Developer*

*September 2001 – 2003*

- Pioneered and built a new Web-based volunteer management system for HR
- **Launched:** The Red Cross Online Management System, supporting >700 volunteers & staff
- **Award:** 2003 American Red Cross Regional Partnership Award

## EDUCATION

**Massachusetts Institute of Technology** GPA: 5.0/5.0

**Cambridge, MA**

**M.Eng.** Electrical Engineering and Computer Science

*June 2008*

Thesis title: *Efficient Object Recognition and Image Retrieval for Large-Scale Applications*

**B.S.** Computer Science and Engineering

*June 2007*

**B.S.** Physics

*June 2007*

## SKILLS

- C, C++, Python, Java, Perl, HTML/CSS/JavaScript/AJAX, PHP, GWT, Django, GTK, SQL
- Unix/Linux; MapReduce, Bigtable, Sawzall, Protocol Buffers
- AI, machine learning, SVMs, computer vision, large-scale data mining

## PROJECTS

- Code & demos: <http://jjl.nu/software>
- Publications: <http://jjl.nu/academics>