

# Matt Chu

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Columbia University in the City of New York  
Department of Computer Science

- Education*
- ◇ **M.S., Computer Science**  
Columbia University (Expected Graduation: May 2008).
    - Specialization Track: Machine Learning
    - GPA: 3.55
  - ◇ **B.S., Information and Computer Science**  
University of California, Irvine (2005).
    - Graduated with honors from the Campuswide Honors Program
    - Information and Computer Science major GPA: 3.76
    - Overall University of California GPA: 3.54
    - Golden State Governor's Scholarship Recipient
    - Dean's List (>3.5 GPA):
      - Winter '05, Spring '04, Winter '04, Fall '03, Spring '03, Winter '03, Spring '02
  - ◇ **Minor, Philosophy**  
University of California, Irvine (2005).
- Work Experience*
- ◇ **Microsoft Corp, Intern**, May 2007 - August 2007.  
As a member of the adCenter web advertising platform team, helped conduct an internal company-wide competition aimed at developing new models for predicting whether or not a given ad would be clicked. Primary tasks involved testing and analyzing submitted models on massive datasets (tens to hundreds of gigabytes, distributed on large clusters) and data analysis of generated web log statistics.
  - ◇ **Imaginary Technology, Lead Application Developer**, October 2005 - July 2006.  
Lead developer for a new restaurant point-of-sales system. Primary responsibilities included leading a 3 person team in application design and development as well as a wide range of other duties such as system administration, project documentation, on-site deployment, and testing environment configuration.
  - ◇ **Unisys Corporation, Co-op**, June 2003 - June 2004.  
A member of the XML Provider team, a project in Java for information exchange between DBMS's. Was the author of the functional design specification for the internationalization and localization of the project as well as regular contributions to the project as a developer.
  - ◇ **Fidelity National Information Solutions, Programmer**, June 2001 - August 2001.  
Promoted to full-time Programmer. Was part of a two-person team that wrote the Fidelity Customer Identification System, a VB6-based in-house application designed to integrate Remedy's Action Request System (a customer management suite) with Interactive Intelligence's Enterprise Interaction Center, an enterprise-level communications software solution.
  - ◇ **Micro General, Programmer**, August 2000 - June 2001.  
Hired as a part-time Programmer. Conducted a feasibility study on integrating the Nuance automated speech recognition system into the Enterprise Interaction Center system.
  - ◇ **ACS Systems Inc., Intern**, June 2000 - August 2000.  
Completed a 150 hour internship as a Programming Intern in the Computer Telephony Integration division. Wrote the Title Rates/Mortgage Calculator for Fidelity National Title during this time.

- Projects, Research, & Publications*
- ◇ *The In Vivo Approach to Testing Software Applications*
    - Christian Murphy, Gail Kaiser, Matt Chu
    - Technical Report CUCS-007-08; 2008 Jan 31
    - Submitted to *International Symposium on Software Testing and Analysis (ISSTA 2009)*.
  - ◇ *Distributed In Vivo Testing of Software Applications*
    - Matt Chu, Christian Murphy, Gail Kaiser
    - *1<sup>st</sup> International Conference on Software Testing, Verification and Validation (ICST 2008)*, Student Track; To be presented 2008 Apr 9-11 in Lillehammer, Norway.
  - ◇ Columbia Graduate Student Project: Modeling of Finite State Machine-based Arabic Morphological Analyzer
  - ◇ *A Compiler and Runtime Infrastructure for Automatic Program Distribution*
    - Roxana E. Diaconescu, Lei Wang, Zachary Mouri, Matt Chu
    - *IEEE Proceedings of the 19<sup>th</sup> International Parallel & Distributed Processing Symposium (IPDPS 2005)*; Presented 2005 Apr 4-8 in Denver, Colorado.
  - ◇ Current Research
    - Word Sense Disambiguation Using Parallel Corpora
    - Word Sense Clustering
- Teaching Experience*
- ◇ **Teaching Assistant, Columbia University**
    - Introduction to Computer Science and Programming in Java
      - Spring 2008, Fall 2007, Fall 2006
    - Data Structures in Java
      - Spring 2007
    - Recipient of Columbia CS Dept. Teaching Assistant Fellowship
      - Spring 2008, Fall 2007, Spring 2007
  - ◇ **Instructor, Columbia University Science Honors Program** (for advanced high school students)
    - Computer Programming in Java
      - Spring 2008, Fall 2007, Spring 2007
- Miscellanea*
- ◇ Primary interests include machine learning, information retrieval, natural language processing, programming languages, and software development.
  - ◇ Main strength lies in Java and Java-related technologies, including AWT/Swing GUI development, the Hibernate database object persistence framework, and webapp development on Apache Tomcat with JSP, Servlets, and the Struts framework. Experience with J2ME.
  - ◇ Skilled in Perl, Python, Bash shell, SQL, C#, and Matlab, with experience in Pascal, C, C++, x86 assembly, JavaScript, PHP, VB.NET, and VB 6.
  - ◇ Experience developing in Windows 95/98/NT/ME/2000/XP/Vista and Linux environments.
  - ◇ Finalist in the 2003 University of California, Irvine Extreme Programming Competition.
  - ◇ Studied in Hong Kong as an exchange student; fluent in spoken Cantonese.
  - ◇ US Citizen; legal name is “Matthew Chu”.
  - ◇ I like to travel, while never staying in any one place for too long. Cities I’ve visited, in no particular order, include: London, Dublin, Pamplona, Paris, Interlaken, Vilnius, St Petersburg, Bangkok, Phuket, Roma, Firenze, Moscow, Athens, Santorini, Istanbul, Copenhagen, Venezia, Cöln, Barcelona, Tallinn, Rīga, Ljubljana, Stockholm, Budapest, Wien, Praha, München, Hvar, Split, Zagreb, Dubrovnik, Kuşadası, Amsterdam, Brussels, Napoli. Places I’d like to visit: pretty much everywhere else.