

Minh Duong

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OBJECTIVE To find a full-time software engineering position starting in August 2010

EDUCATION

- **M.S.** in Computer Science - Language Technologies *Expected August 2010*
Carnegie Mellon University, Pittsburgh, PA
 - *Relevant coursework:* Machine Learning for Ph.D. (A), Language and Statistics (A+), Information Retrieval (A), Algorithms for Natural Language Processing (A), Experimental Information Retrieval, Multimedia Databases and Data Mining (both in progress)
- **B.A.** in Computer Science and Mathematics, summa cum laude *May 2008*
University of the South, Sewanee, TN
 - GPA: 3.91/4.00. Class rank: 6/347

RESEARCH EXPERIENCE

- **Graduate Research Assistant** *Carnegie Mellon University - 08/2008 to present*
 - Work with Professor Jack Mostow in Project LISTEN, A Reading Tutor that interacts with children using an Automatic Speech Recognizer
 - Develop a method to automatically assess children's oral reading prosody
 - Develop a method to detect children's prosody improvement in text re-reading
- **Research Intern** *Accenture Technology Labs - 05/2007 to 08/2007*
 - Worked in a research project on Semi-supervised Learning for Information Extraction, with Rayid Ghani and Katharina Probst
 - Developed, improved and generalized Co-EM with Naïve Bayes, a multi-view, semi-supervised algorithm for named entity recognition
- **Undergraduate Research Assistant** *University of the South - 05/2006 to 08/2006*
 - Worked in a research project on building a meta-planner for Probabilistic Roadmap Motion Planning, with Professor Lucia Dale
 - Developed a method to combine different motion planning algorithms to generate a better roadmap for robots to navigate around obstacles

OTHER WORK EXPERIENCE

- **Head Residential Computer Consultant (RCC)** *University of the South - 08/2007 to 05/2008*
Led the RCC program, which helped campus residents with all computer security and network issues
- **Math Tutor** *Department of Mathematics, University of the South - 09/2005 to 05/2008*
Helped math students understand new concepts and solve problems through out-of-class tutoring sessions

PUBLICATIONS

- **Duong, M.** and Mostow, J. Detecting Prosody Improvement in Oral Reading. *Proceedings of the 2nd ISCA Workshop on Speech and Language Technology in Education (SLaTE 2009)* 2009. Warwickshire, UK
- Mostow, J. and **Duong, M.** Automated Assessment of Oral Reading Prosody. *Proceedings of the 14th International Conference on Artificial Intelligence in Education (AIED2009)* 2009. Brighton, UK.

SKILLS

- Programming Languages: Java, Python, C, C++, Perl, PHP, MySQL, Matlab, R, Common Lisp, Scheme
- Operating Systems: Windows, Linux, Mac OS X
- Languages: Vietnamese (native), English (fluent), French and Chinese (proficient)

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ACADEMIC HONORS

- Phi Beta Kappa (National Honor Society) *2007-present*
- The Hook Prize for Achievement in Calculus (awarded annually to 1 calculus student) *2005-2006*
- Dean's List *2004-2008*
- International Scholar (Full Merit Scholarship awarded annually to 6 international students) *2004-2008*

SELECTED COURSE PROJECTS

- Language model for part-of-speech (POS) tags *Spring 2009*
 - Built a system to train and test a combined n-gram and maximum entropy language model for POS tags.
 - Worked in 2-person team.
- Humor detection in email *Fall 2009*
 - Built a machine learning system that classifies whether an email message is humorous or not.
 - Worked in 2-person team.
- Multithreaded chat application *Spring 2008*
 - Built a multithreaded chat room server and client in Java.
 - Worked individually.
- Alumni database *Spring 2006*
 - Built a MySQL database to store alumni information and a PHP web interface to access the database.
 - Worked individually.

EXTRACURRICULAR ACTIVITIES

- Organization for Cross-Cultural Understanding, *Vice-president* *2006-2007*
- Jamaica Volunteer Outreach Group, *member* *Winter break 2006*
- Miami Volunteer Outreach Group, *member* *Spring break 2006*