

Curriculum Vitae

Omer Bar-or

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Objective

Work in Computer Science, Software Development, and Web Development

Education

2007-2009 The University of California: Los Angeles Los Angeles, CA
[Master of Science in Computer Science]

- Masters Thesis: “Augmenting Resolution Strategies to Learn More Useful Clauses: A Preliminary Study”
- Relevant coursework: Automated Reasoning, Causality, Problem Solving and Search, Graph Theory, Algorithmic Game Theory, Language and Thought, Reasoning with Partial Beliefs, Individual Study in Linguistics: Syntactic Parsing
- Achieved a 4.00 overall GPA

2002-2006 The Colorado College Colorado Springs, CO
[Bachelor of Arts, Magna Cum Laude, Distinction in Comparative Literature]

- Majored in comparative literature, minored in computer science and philosophy
- Received two research awards, one as a grant to conduct summer research (Robert Lewis Prize in Philosophy, 2005), and one as a prize for the resulting senior research paper (Excellence in Comparative Literature, 2006)
- Achieved a 3.99 overall GPA, 3.99 upper-division GPA, and 4.00 major GPA
- Listed on the Dean’s List for all four years of study: 2002-2006

Recent Software Development Experience

Software Systems Development Engineer Yahoo!
2009-Present Sunnyvale, CA

- Created scalable performance measurement scripts in Python using the MapReduce paradigm
- Improved performance of a web crawler in Java
- Answered questions by new co-workers and served as a gateway for other groups
- Collaborated with my team to switch to a more agile process by building tools to make unit testing easier and helping to create a sized backlog

Student Programming Assistant III National Center for Atmospheric Research
2008 Boulder, CO

- Conducted data mining research to predict helicopter-unfriendly weather conditions
- Built a suite of tools in Python for conducting time-series data mining tasks using several existing data mining packages (WEKA, RapidMiner, Orange, etc.)
- Researched atmospheric data climatologically to better guide data mining techniques
- Developed general purpose tools in C++ for storing and extracting data for large datasets
- Created a library in Python for easily modifying large datasets based on existing data

Web Developer
2008

Green Abacus
San Francisco, CA

- Designed website including major components and Entity-Relationship Diagram
- Implemented prototype of social website in Ruby on Rails

Student Programmer
2007

Google Summer of Code
Google, Mountain View, CA

- Developed a driver in C++/Carbon for incorporating Mac OS X Address Book data in OpenOffice.org
- Collaborated with administrators of NeoOffice and OpenOffice.org to implement the driver into both systems

Publication

Frehlich, R., R. Sharman, O. Bar-or, M. Jensen, Y. Meillier, B. Balsley, 2004: Boundary layer measurements and inter-comparisons during the Pentagon Shield exercise. 8th Annual George Mason University Conference on Transport and Dispersion Modeling, July 13-15, 2004, Fairfax, VA.

Computer and Human Language Proficiencies

Proficient: Python, Perl, Java, C, C++, SQL, PHP, JavaScript, CSS, Modern Hebrew
Beginner Level: LISP, Ruby, OCaml, Objective C++

Sample Professional Projects

Mac OS X Address Book Support for OpenOffice.org (2007): a C++ driver for importing data from the native Mac OS X Address Book into OpenOffice.org as a data source

- **See:** http://wiki.services.openoffice.org/wiki/MacOSX:_Address_book_integration
- Supports localization, using Mac OS X localization information
- Handles duplicates gracefully (e.g., two home addresses)

Grf (2004-2006): a scriptable graphing utility in C that creates publication-quality PostScript plots using either user-set or best-guess values for range and tic marks

- **See:** “Research Tools” in: <http://pro.omer.bar-or.org/past.html>
- Used by several researchers in the National Center for Atmospheric Research
- Plots linear and log data on a two-dimensional grid or as an image
- Can plot multiple data sets on a single graph and multiple graphs per page

Recent Personal Projects

Old LiveJournal Polls (2010): GreaseMonkey script to create polls with LiveJournal accounts that are too old to create them natively

- **See:** <http://userscripts.omer.bar-or.org/>

RMagick (2009-present): Ruby wrapper around ImageMagick (became maintainer)

- **See:** <http://rmagick.rubyforge.org/>

A Hypertext Reference (2009): a multimedia, collaborative novel

- **See:** <http://nano2009.omer.bar-or.org/>
- Written as part of National Novel Writing Month

Team Sketch (2009): a two-player game over bluetooth for the iPhone

- **See:** <http://teamsketch.omer.bar-or.org/>