

Matthew Jones

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OBJECTIVE	Obtain a position in a fast-paced and demanding setting, where I can apply my interests, education, and experience in machine learning, natural language processing, and optimization to huge datasets.
PROFESSIONAL EXPERIENCE	<p>Pinterest, San Francisco, CA March 2012 – present</p> <p><i>Software Engineer / Technical Lead – Monetization</i></p> <ul style="list-style-type: none">• Lead design and implementation of a v1 ads product (promoted pins). Responsible for auction design, technical aspects of product design, experiment design and analysis, availability and performance goals, and overall ad quality.• Designed and implemented quality components (CTR prediction models etc.) on an online learning system.• Designed and implemented an internal high-performance machine learning library (a feature-hashing linear model, similar to Vowpal Wabbit), capable of batch and online learning, model evaluation and calibration. <p><i>Software Engineer – Spam</i></p> <ul style="list-style-type: none">• Researched, implemented and evaluated systems for detecting spam in a large and rapidly growing dataset.• Implemented internal tools for content moderation.• Built machine learning models to detect abusive content and fraudulent signups.• Developed service-oriented-architecture best practices. <p>Yelp, San Francisco, CA January 2008 – March 2012</p> <p><i>Software Engineer – Search & Data-Mining, Web Backend and Mobile/iOS</i></p> <ul style="list-style-type: none">• Contributed to search engine relevancy, infrastructure, and performance, with an emphasis on optimizing results for mobile clients.• Designed, implemented, and maintained an analytics system for monitoring and exploring search quality and performance.• Designed, implemented, and maintained all server side code for mobile clients.• Built the check-in feature from the ground up (leaderboards, badges, local-rankings).• Optimized and scaled the mobile API's MySQL usage. Became overly-intimate with InnoDB locking behavior, MySQL replication, and the python MySQLDB library.• Contributed to the full life-cycle of several releases of Yelp's iPhone application (including the first).• Participated in the hiring process for most of the current engineering team (over 80 hires).
EDUCATION	<p>University of California at Berkeley, Berkeley, California</p> <p><i>Bachelor of Science, Electrical Engineering and Computer Science</i> August 2004 – May 2008</p> <ul style="list-style-type: none">• Nation Merit & Alumni Leaders Scholar• Upper-Division GPA: 3.4• Upper-Division Courses: CS 162 (Operating Systems), CS 164 (Compilers), CS 170 (Theory - Algorithms), CS 172 (Theory - Complexity), Stat 134 (Probability), CS 174 (Theory - Randomized Algorithms), CS 188 (Artificial Intelligence), EE 190 (Seminar in Sensor Networks)• Graduate Courses: CS 270 (Theory - Algorithms), CS 281A / Stat 241A (Statistical Machine Learning), CS 294 (Natural Language Processing, now CS 288), CS294 (Seminar in Applied Machine Learning)
INTERNSHIPS	<p>Google - Summer 2007 – <i>Software Engineering Intern</i> – UC Berkeley – October 2006 – May 2007 – <i>Undergraduate Research Assistant</i> – Apple – Summer 2006 – <i>Software Engineering Intern</i> – Google Summer of Code – Summer 2005 - <i>GNOME Project</i></p>
OPEN-SOURCE PROJECTS	<p>mrjob – http://github.com/Yelp/mrjob – A library for writing hadoop streaming jobs in python. Built the first version from scratch, in my free time. Maintained, expanded, and optimized for 2 years. 100% of the Hadoop work at Yelp uses mrjob.</p>
SKILLS AND INTERESTS	Python, C, Go, basic statistics and visualization, machine learning, metrics and ranking, experiment design, debugging distributed systems, service-oriented architecture, search / lucene
REFERENCES	<i>Available upon request.</i>