

## Vikram Oberoi

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**OBJECTIVE** I am seeking a full-time opportunity to work with a small team on challenging software problems involving scale, algorithmic complexity, and/or data mining.

**EDUCATION** STANFORD UNIVERSITY, June 2009 Expected Graduation Stanford, CA

- Major: Computer Science, GPA: 3.36
- Coursework: Programming Methodologies and Abstractions, Operating Systems, Compilers, Networking, Computer and Network Security, Programming Languages, Probabilistic Analysis, Artificial Intelligence, Discrete Mathematics (topics include logic, graph theory, asymptotics)

AWTY INTERNATIONAL SCHOOL, May 2005 Houston, TX

- High School, International Baccalaureate Diplomas, GPA: 92%

### EXPERIENCE

Summer 08 **MEEBO** Mountain View, CA  
*Data Engineer Intern*

- Designed and built, from scratch, a generic A/B testing framework to run live, controlled experiments in production on any front-end feature and set of metrics.
- Added business value by moving Meebo's decision-making to a data-driven process. The project was entirely my own from concept to completion.
- Designed and built all fundamental components for an A/B testing system at Meebo's scale:
  - Segmenting users into control/treatment groups every time one hits meebo.com (over three million logins a day).
  - An easy way for engineers to implement, test, and deploy experiments within a day by safely circumventing a two-week release schedule.
  - Scripts to perform split hypothesis testing over gigabytes of data and a front-end to expose fresh results every fifteen minutes.
- Worked across the organization with:
  - Server and ops teams to ensure a fail-safe deployment and Q/A procedure for experiments.
  - Front-end engineers to make implementing and deploying experiments as easy as possible.
  - The business team to explain the tool's value, limitations, and how to interpret results.

Summer 07 **AMAZON.COM, Personalization** Seattle, WA  
*Software Development Engineer Intern*

- Analyzed tens of gigabytes of clickstream, purchase, and recommendations feedback data to improve item-to-item recommendations ("customers who bought this also bought"). Gathered clickthrough, conversion rates, and used statistical (finding unusually low conversions through z, chi-squared distributions) and other quantitative approaches to cull unintuitive recommendations.
- Tested approaches by writing CGI's to qualitatively evaluate datasets they generated as well as scripts to affect the daily deployed build to show an approach's actual effect on conversions.
- Built a tool to see how our features performed on a per product group basis, previously determined by speculation. Used daily, the team can determine where to allocate efforts and also use it as a metric to show where changes to an algorithm affect conversions the most.
- Won 'Best Intern Project Presentation' in our organization's summer intern program.

Spring 07 - **STANFORD UNIVERSITY, Department of Computer Science** Stanford, CA  
Present *Section Leader and Teaching Assistant*

- I lead sections for introductory computer science classes, grade projects and exams, and hold weekly office hours to answer students' questions.

### PROJECTS

Autumn 08 - **SITE SAVER**  
Present Developed an iPhone application that allows users to cache websites on their phone. Built a multithreaded mini-web spider from scratch as the caching mechanism. Built a website to co-promote other apps developed by Stanford students, which got TechCrunched in January 09.

Summer 06 **DATASTORE**  
Created a Rails-like CRUD method generator for file or database-backed storage while investigating Ruby's metaprogramming capabilities. Operates similarly to Rails' ActiveRecord.

## TECHNICAL

- Extensive knowledge of: C, Objective C, C++, Java, Ruby, Python, SQL
- Experience with: Perl, PHP, Javascript, HTML, CSS
- RDBMS: PostgreSQL, MySQL
- SCM: Subversion, Git
- OS: Linux, Mac OS X

## ACTIVITIES

- 2005 - 2006    STANFORD RAAGAPELLA    Stanford, CA  
Promoted albums for and sang in an award winning a cappella group. Performed with India's most acclaimed musicians and composers at the Hollywood Bowl in front of an audience of 18,000.
- 2002 - 2005    YESTERDAY'S ORANGE    Houston, TX  
Booked over thirty shows for my rock band around the Houston area. Recorded a four-track demo CD that sold over one hundred copies. Played lead guitar.