

# Jacob A. Boxer

100 Rolling Green Dr.  
Amherst, MA 01002  
978-790-8902  
jboxer@student.umass.edu

## Objective

To become part of a skilled and creative software engineering team. I would like to have a challenging and interesting development experience that will improve my skills.

## Education - University of Massachusetts Amherst (Graduating in May 2009)

- Majoring in Computer Science
- Current GPA: 4.00 (Dean's List Recipient every semester)

## Academic Honors

- Phi Beta Kappa
- William F. Field Alumni Scholar Award

## Computer Skills

- *Desktop Programming* – Java (3 years), Python (1 year), C++ (1 year)
- *Web Programming* – PHP (3 years), MySQL (2 years), MVC Frameworks (2 years), JavaScript (2 years), CSS (4 years), Flash/ActionScript (1 year)
- *Relevant Coursework* – Data Structures, Prog. Lang. Paradigms, Algorithms, Software Engineering, Software Engineering Project Management, Computer Networks, Information Systems/Databases, Operating Systems, Advanced OO Lang. Features, Concurrency

## Experience

### Cisco/Webex – Software Engineering Intern

*Burlington, MA; June 2008 – August 2008*

Worked in a team of four to develop a calendar web application. Used Dojo Toolkit (a JavaScript framework), CSS, HTML, and Java to develop the application. Reviewed UI spec documents and wrote detailed CVS commit messages. Also spent significant time debugging other peoples' code as launch date approached.

### Off-Campus Housing (OCH) at University of Massachusetts Amherst – Web Developer

*Amherst, MA; August 2007 – Present*

Developed and maintained a web application that helps students find off-campus housing and landlords list rentals in Western Massachusetts. Used PHP 5 and MySQL to develop the application, as well as JavaScript and AJAX technologies. Worked in a team for the first two months, then worked solo.

### University of Massachusetts Amherst – Project Manager

*Amherst, MA; September 2008 – December 2008*

Managed four 3-person teams as we developed a system to facilitate the simulation of various hospital emergency room scenarios. Guided teams through the classical software engineering phases, delegated work, presided over meetings, and produced system-encompassing deliverables (system test plan, module interface specification).

## **Personal Projects**

### *HvZ Tracker – PHP 5, MySQL*

Developed a system to keep track of a campus-wide game at UMass. Over 1,100 students registered and recorded progress with the system in Fall '07, and another 700 in Spring '08.

### *Thriller – Python, Django, jQuery, MySQL*

Rewrote the *HvZ Tracker* system (mentioned above) for an independent study project. Made extensive use of Test-Driven Development and Martin Fowler's refactoring techniques. Includes a number of advanced features such as text-message notifications and areas that are restricted by player status (restrictions can be changed without modifying code).

### *InternetMom – Python, Django, jQuery, MySQL*

Wrote a system to manage chore assignments for my housemates and me. Uses a self-created algorithm to determine who should be assigned which chores (with fairness priorities based on evenly distributing work on a per-day and per-chore basis). Housemates and chores can be added and removed, and the algorithm will adapt accordingly. Sends email alerts to remind housemates of the chores they have to do, and allows them to record when they've done them so that new ones can be assigned.

### *Boggle Solver – C++*

Wrote a system that takes a standard 4x4 Boggle board as input and prints out a list of all the words that can be spelled with the given board, ordered by length (longest to shortest).

## **References**

- Mary Schladenhauffen (boss + mentor at Cisco) / 781.565.6178 / mschlade@webex.com
- Thea Costine (boss at OCH) / 413.545.1639 / tcostine@gw.housing.umass.edu
- David Fisher (Software Engineering Professor) / 413.545.4852 / dfisher@cs.umass.edu