

# SEAN BACHELDER

2715 Portland St.  
Los Angeles, CA 90007

Cell: (253) 678-7360  
Email: bachelde@usc.edu  
<http://www-scf.usc.edu/~bachelde>

**OBJECTIVE:** To obtain a challenging full time position as a software engineer

## EDUCATION

**Bachelor of Science, Computer Science, Cumulative GPA 3.53**

Expected May 2008

University of Southern California (USC)

Los Angeles, CA

Related Coursework:

- Object Oriented Programming
- Software Engineering
- Artificial Intelligence and Intelligent Agents
- Operating Systems
- Organization of Computer Systems
- Design and Analysis of Algorithms
- Video Game Programming
- Serious Games Development

## COMPUTER SKILLS

**Languages:** C, C++, C#, Java, Assembly, PHP, SQL, DirectX, OpenGL  
**Platforms:** Windows, Linux, Unix (Sun)  
**Applications:** Microsoft Visual Studio, Subversion, GDB

## PROJECT EXPERIENCE

### USC Class Projects

- Grocery Store Simulation – C++ Fall 2007
  - Designed and developed clerk and cash register entities
  - Synchronized clerk and customer threads using locks and condition variables
- Artificial Life Simulation – C++ Spring 2005
  - Developed visual environment for creatures to live in
  - Created system for creatures to interact with one another

### Self-Initiated Projects (available on website)

- Sticky Notes – C# Summer 2007
  - Designed and implemented custom context menu system
  - Focused on usability and appearance
- Falling Blocks (Tetris Clone) – C++/OpenGL Summer 2006
  - Designed and developed all aspects of the game
  - Object-oriented design

## WORK EXPERIENCE

Interaction Lab, USC Robotics Research Lab

Los Angeles, CA

*Merit Research Student*

06/2007 – Present

- Created and documented library for controlling humanoid robot
- Developed GUI applications utilizing library
- Working on inverse kinematic controller for robot

Network Operations Center, USC Information Technology Services

Los Angeles, CA

*Student Operator*

09/2004 – 05/2007

- Trained new student workers
- Worked on team to develop web-based reporting utility in PHP and SQL

## LEADERSHIP/ORGANIZATIONS/AWARDS

Director of Activities, Upsilon Pi Epsilon (Computer Science Honor Society)

2006-Present

Treasurer, Theta Chi Fraternity

2005-Present

Engineering Academy Coach (Teaching Assistant)

2005-2006

Member, ACM Student Chapter

2006-Present

Member, Alpha Lambda Delta

2005-Present

Member, IEEE Student Chapter

2004-Present

Explore USC 2005 – Viterbi Host Team

2005

Richards Family Foundation Scholarship

2006

Seely Mudd Scholarship

2005

Viterbi School of Engineering Dean's List

2004-Present