

Thomas Liu

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School Address:

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OBJECTIVE: Obtain a position as a software developer.

EDUCATION: Worcester Polytechnic Institute, Worcester, MA
Bachelor of Science in Computer Science, May 2011
Bachelor of Science in Interactive Media and Game Design, May 2011
Major GPA: 3.88/4.00, Cumulative GPA: 3.65/4.00

COURSES: (By May 2010)

Software Engineering	Distributed Computer Systems
Algorithms	Database Systems I
Systems Programming Concepts	Foundations of Computer Science
Programming Language Design	Computer Graphics
Software Security Engineering	Introduction to Artificial Intelligence
Object Oriented Analysis and Design	Technical Game Development I and II
Operating Systems	

SKILLS:
Strong implementation skills: C, C++, Java, Python, Scheme
Experience with: HTML/CSS, PHP, Perl, MySQL, Oracle, Google App Engine, DirectX, Haskell, Ruby, C4 Game Engine, Flixel, Actionscript 3
Software: Vim, Adobe Photoshop, Microsoft Office Suite, Eclipse, SVN, Git
Operating Systems: Windows, Linux
Foreign Languages: Conversational Mandarin Chinese

EXPERIENCE: **WPI Department of Computer Science** Worcester, MA
Senior Assistant Fall 2009 - Present
Assist professors by holding office hours and monitoring lab sessions.

Courses:

- ◆ Introduction to Program Design
- ◆ Object-Oriented Design Concepts
- ◆ Operating Systems
- ◆ Software Engineering

Red Hat, Inc. Westford, MA
Security Engineering Intern Summer 2009 and 2010
Developed components relating to security enhanced Linux.

Projects:

- ◆ settroubleshoot – redesigned and reimplemented the graphical user interface for this SELinux troubleshooting tool
- ◆ polycycoreutils – wrote a python wrapper around tools used for searching of policy, added functionality to command line utilities setfiles and restorecond
- ◆ kernel – contributed patches to the security-testing branch of the kernel, gained experience communicating with kernel developers
- ◆ PackageKit – Fixed and updated python frontend to work with new libraries
- ◆ sandbox – integrated cgroups into sandbox to confine applications

WPI Helpdesk Worcester, MA
Helpdesk Student Specialist Fall 2007 – Spring 2009
Solved technology issues for faculty and students over the telephone, in person and through email.

WPI Assistments Lab Worcester, MA
Research Assistant Spring 2008
Collected data to further research addressing WPI Assistments, software designed to help Worcester secondary school students achieve better scores on standardized tests.

Lexington Chinese School Belmont, MA
Teacher 2006 – 2007
Taught an extracurricular class about strategy in the game of Go.

Kaon Interactive Maynard, MA
Intern Summer 2007
Maintained and repaired computers including Kaon's v-OSK machines.
Wrote AppleScript applications to facilitate company workflow.

Delta-F Corporation Woburn, MA
Software Development Intern Summer 2007
Developed a Java applet to prototype communication with lab devices through TCP/IP.

ACHIEVEMENTS: **WPI Dean's List:** Fall 2009, Spring 2009, Fall 2010
Red Hat Certified Engineer: #805009550541530

ACTIVITIES: **WPI Outing Club:**
♦ Member, Fall 2007 - Present
♦ Secretary, Spring 2009 – Present