

## Karl T. Voelker

611 Bounty Drive  
Apartment 106  
Foster City, CA 94404  
(650) 274-4574

ktvoelker@gmail.com  
<http://karlv.net>

<b>Employment</b>	<b>Software Development Engineer</b> , Lab126, Cupertino, CA      Aug. 2011–Present <ul style="list-style-type: none"><li>• Worked on UI platform to improve user experience, performance, and API</li></ul>
	<b>Research Assistant</b> , UW–Madison, Madison, WI      Aug. 2010–Aug. 2011 <ul style="list-style-type: none"><li>• Worked on system for checking safety properties of JavaScript programs</li><li>• Experience in absorbing academic literature and conference presentations</li></ul>
	<b>Software Engineer Intern</b> , Microsoft, Redmond, WA      May 2009–Aug. 2009 <ul style="list-style-type: none"><li>• Performance testing and debugging on certain Windows components</li></ul>
	<b>Software Engineering Intern</b> , Truviso, Foster City, CA      May 2008–Aug. 2008 <ul style="list-style-type: none"><li>• Designed, developed, and tested a new feature on Truviso’s flagship application</li><li>• Worked with the PostgreSQL database source code</li></ul>
	<b>Student Programmer</b> , R.I.T., Rochester, NY      Nov. 2006–Nov. 2009 <ul style="list-style-type: none"><li>• Developed identity, account, and computer management system</li></ul>
<b>Education</b>	<b>University of Wisconsin–Madison</b> , Madison, WI, Fall 2010–Summer 2011 Graduate student in the Dept. of Computer Sciences, programming languages group
	<b>Rochester Institute of Technology</b> , Rochester, NY, Fall 2005–Summer 2010 Graduated Summer 2010 with <b>M.S. and B.S. in Computer Science</b> GPA 3.97; enrolled in Honors Program; National Merit Scholar
<b>Experience</b>	<b>M.S. Thesis: “Practical Programming with Total Functions”</b> <ul style="list-style-type: none"><li>• Implemented a Haskell variant in which recursion must be structural</li><li>• Advised by Prof. Matthew Fluet</li><li>• <a href="http://pptf.karlv.net">http://pptf.karlv.net</a></li></ul>
	<b>Graduate-level computer science courses in:</b> <ul style="list-style-type: none"><li>• Compilers, static analysis, functional programming</li><li>• C.S. theory, algorithms, cryptography, parallel computing</li></ul>
	<b>X11 window manager</b> in Haskell <ul style="list-style-type: none"><li>• Self-taught using X11 manual and other WM source code</li><li>• <a href="http://ktvoelker.github.com/argon/">http://ktvoelker.github.com/argon/</a></li></ul>
	<b>Studied 3-color Ramsey numbers of paths</b> with Prof. Stanisław P. Radziszowski
	<b>Systems admin.</b> , Computer Science House, Rochester, NY      Sept. 2006–May 2009
<b>Skills</b>	<b>Technical lecture series</b> given to Computer Science House members
	C, C++, C#, Java, Haskell, Perl, JavaScript, HTML, CSS, XSLT, SQL, UNIX/Linux