

Karl T. Voelker

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