

Karl Voelker

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<http://karlv.net>

Employment	Software Development Engineer , Lab126, Cupertino, CA Aug. 2011–Present <ul style="list-style-type: none">• <i>Tech lead</i>, Kindle Fire web application platform, since Oct. 2012<ul style="list-style-type: none">– Provided technical leadership to a team of four engineers– Designed and implemented a new application platform– Worked with customers, architects, and product managers on requirements and design– Shipped two major releases• Kindle e-reader platform generalist, Aug. 2011–Sep. 2012<ul style="list-style-type: none">– Shipped Kindle Touch and Kindle Paperwhite– Proposed and implemented UI overhaul for Paperwhite release– Designed and implemented additions to UI platform API– Worked on everything: boot sequence, network configuration, system toolbars, window layout– Created a UI interaction-testing framework
	Research Assistant , UW–Madison, Madison, WI Aug. 2010–Aug. 2011
	Software Engineer Intern , Microsoft, Redmond, WA May 2009–Aug. 2009
	Software Engineering Intern , Truviso, Foster City, CA May 2008–Aug. 2008
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 M.S. Thesis: “Practical Programming with Total Functions” (http://pptf.karlv.net) Courses: algorithms, C.S. theory, cryptography, parallel computing, compilers
Skills	C, C++, Java, Scala, Haskell, Python, Perl, JavaScript, SQL, Android, Linux
Projects	Splitcent , a bill tracker for debts between friends <ul style="list-style-type: none">• Implemented in Python with Flask and PostgreSQL• Created the database schema and web service API• Live for over a year
	Vorple , a simple web service framework for Haskell <ul style="list-style-type: none">• Allows a web service to use Haskell’s rich type system• Plays nice with other libraries via widely-used monadic interfaces• https://github.com/ktvoelker/vorple
	Argon , a declarative X11 window manager in Haskell <ul style="list-style-type: none">• Self-taught using X11 manual and other WM source code• http://argon.karlv.net