

# Karl Voelker

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<http://karlv.net>

<b>Employment</b>	<p><b>Sorcerer (Software Engineer)</b>, SmugMug, Mountain View, CA Oct. 2013–Present</p> <p><b>Software Development Engineer II</b>, Lab126, Cupertino, CA Oct. 2012–Sep. 2013</p> <ul style="list-style-type: none"><li>• <i>Tech lead</i>, Kindle Fire web application platform</li><li>• Provided technical leadership to a team of four engineers</li><li>• Designed and implemented a new application platform</li><li>• Worked with customers, architects, and managers on requirements and design</li></ul> <p><b>Software Development Engineer</b>, Lab126, Cupertino, CA Aug. 2011–Sep. 2012</p> <ul style="list-style-type: none"><li>• Kindle e-reader platform generalist</li><li>• Shipped Kindle Touch and Kindle Paperwhite</li><li>• Proposed and implemented UI overhaul for Paperwhite release</li><li>• Designed and implemented additions to UI platform API</li><li>• Worked on boot, wifi configuration, system toolbars, and window layout</li><li>• Created a UI interaction-testing framework</li></ul> <p><b>Research Assistant</b>, UW–Madison, Madison, WI Aug. 2010–Aug. 2011</p> <p><b>Software Engineer Intern</b>, Microsoft, Redmond, WA May 2009–Aug. 2009</p> <p><b>Software Engineering Intern</b>, Truviso, Foster City, CA May 2008–Aug. 2008</p>
<b>Education</b>	<p><b>University of Wisconsin–Madison</b>, Madison, WI, Fall 2010–Summer 2011 Graduate student in the Dept. of Computer Sciences, programming languages group</p> <p><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 M.S. Thesis: “Practical Programming with Total Functions” (<a href="http://pptf.karlv.net">http://pptf.karlv.net</a>) Courses: algorithms, C.S. theory, cryptography, parallel computing, compilers</p>
<b>Skills</b>	C, C++, Java, Scala, Haskell, Python, Perl, JavaScript, SQL, Android, Linux
<b>Projects</b>	<p><b>Splitcent</b>, a bill tracker for debts between friends</p> <ul style="list-style-type: none"><li>• Implemented in Python with Flask and PostgreSQL</li><li>• Created the database schema and web service API</li><li>• Live for over a year</li></ul> <p><b>Vorple</b>, a simple web service framework for Haskell</p> <ul style="list-style-type: none"><li>• Allows a web service to use Haskell’s rich type system</li><li>• Plays nice with other libraries via widely-used monadic interfaces</li><li>• <a href="https://github.com/ktvoelker/vorple">https://github.com/ktvoelker/vorple</a></li></ul> <p><b>Argon</b>, a declarative X11 window manager in Haskell</p> <ul style="list-style-type: none"><li>• Self-taught using X11 manual and other WM source code</li><li>• <a href="http://argon.karlv.net">http://argon.karlv.net</a></li></ul>