

Karl Voelker

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Employment	<p>Sorcerer (Software Engineer), SmugMug, Mountain View, CA Oct. 2013–Present</p> <ul style="list-style-type: none">• <i>Lead engineer</i> on the SmugMug API• Built new features according to the needs of a wide variety of API consumers• Performed maintenance and security audits• Built an extensive suite of automated tests and an API testing framework• Guided the public launch of a new API version• Assisted internal and external developers with their use of the API <p>Software Development Engineer II, Lab126, Cupertino, CA Oct. 2012–Sep. 2013</p> <ul style="list-style-type: none">• <i>Tech lead</i>, Kindle Fire web application platform• Provided technical leadership to a team of four engineers• Designed and implemented a new application platform• Worked with customers, architects, and managers on requirements and design <p>Software Development Engineer, Lab126, Cupertino, CA Aug. 2011–Sep. 2012</p> <ul style="list-style-type: none">• Kindle e-reader platform generalist• Shipped Kindle Touch and Kindle Paperwhite• Proposed and implemented UI overhaul for Paperwhite release• Designed and implemented additions to UI platform API• Worked on boot, wifi configuration, system toolbars, and window layout• Created a UI interaction-testing framework <p>Research Assistant, UW–Madison, Madison, WI Aug. 2010–Aug. 2011</p> <p>Software Engineer Intern, Microsoft, Redmond, WA May 2009–Aug. 2009</p> <p>Software Engineering Intern, Truviso, Foster City, CA May 2008–Aug. 2008</p>
Education	<p>University of Wisconsin–Madison, Madison, WI, Fall 2010–Summer 2011 Graduate student in the Dept. of Computer Sciences, programming languages group</p> <p>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</p>
Skills	C, C++, Java, Scala, Haskell, Python, Perl, JavaScript, SQL, Android, Linux
Projects	<p>Splitcent, a bill tracker for debts between friends</p> <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 <p>Argon, a declarative X11 window manager in Haskell</p> <ul style="list-style-type: none">• Self-taught using X11 manual and other WM source code• http://argon.karlv.net