

Karl Voelker

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<http://karlv.net>

- Employment**
- Senior Software Engineer**, Plum, Palo Alto, CA Oct. 2015–Present
- Software Engineer**, SmugMug, Mountain View, CA Oct. 2013–Oct. 2015
- *Lead engineer* 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
- Software Development Engineer II**, Lab126, Cupertino, CA Oct. 2012–Sep. 2013
- *Tech lead*, 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
- Software Development Engineer**, Lab126, Cupertino, CA Aug. 2011–Sep. 2012
- 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
- 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
- Argon**, a declarative X11 window manager in Haskell