

# Kristof Redei

*Ruby on Rails Web Developer*

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Web: <http://kristof.me>

## Professional Experience

- October 2009–Present **Software Engineer**, *Avenue 100 Media Solutions*, Woburn, MA, Manager: Derek Yimoyines.  
Full-time member of 6-person engineering team for Ruby on Rails-driven online marketing web application with over 5 million unique hits per month. Responsibilities include back-end and front-end software design and development, setup, maintenance, and troubleshooting of production application, and interviewing and training new team members.
- September 2007–May 2009 **Graduate Assistant**, *Tufts University Academic Technology*, Medford-Somerville, MA, Manager: Gina Siesing.  
Member of development staff providing web-based technology solutions to professors and staff across campus. Designed, wrote, and tested Java, JSP, and ColdFusion code.
- June–August 2007, May–July 2008, May–September 2009 **Software Developer, Intern**, *CourseAdvisor, Inc.*, Wakefield, MA, Manager: Dan Chak.  
Implemented materialized views in a PostgreSQL database for a tenfold speedup on slow queries. Redesigned and rewrote lead posting system currently in use using Amazon SQS. Designed and built inventory management user interface using REST and ActiveResource. Wrote unit and functional tests using test-unit and RSpec. Planned and executed production application, web server, and database setup during move from RackSpace shared hosting to self-managed co-located servers, using the chef automated deployment tool to configure Apache, haproxy, mongrel, and thin web servers.

## Education

- August 2009 **M.S. in Computer Science**, *Tufts University*, Medford-Somerville, MA, GPA: 3.9.  
Courses in Computational Geometry, Human-Computer Interaction, Machine Learning, Artificial Intelligence, Computational Biology
- May 2007 **B.A. cum laude in Computer Science and Philosophy**, *Williams College*, Williamstown, MA, GPA: 3.6.  
Courses in Data Structures, Computer Organization, Programming Languages, Operating Systems, Algorithms, Theory of Computation

## Publications

- 2009 **Tri-Edge-Connectivity Augmentation for Planar Straight Line Graphs**, by M. Al-Jubei, M. Ishaque, K. Redei, D. L. Souvaine and C. Toth in *Algorithms and Computation, Lecture Notes in Computer Science*, 2009, Volume 5878/2009, pp. 902-912.

## Technical Skills

- Programming Proficient in Ruby and the Rails web framework. Professional and/or academic experience in Java, C++, Perl, PHP, and ColdFusion.
- Tools Version control (svn, git), test-driven development (rspec and CruiseControl.rb), automated server deployment (chef, ohai). Development environments: TextMate, emacs.
- Databases Extensive experience with PostgreSQL, competent with MySQL. Some experience with non-relational data stores (Redis, MongoDB, TokyoCabinet) in a production environment.

## Other Skills and Interests

- Languages Fluent in oral and written English, French, German, and Hungarian.
- Blog Writing on the American college and graduate school admissions process for Hungarian students at <http://ustudy.hu>, averaging 1000+ hits per month.