Kristof Redei
Web Developer

✉ *kristof@kristof.me*
Web: http://kristof.me

Professional Experience

July 2012–Present
Director of Technology, *TurningArt*, Boston, MA.
Responsible for all aspects of development and operation of web application for start-up focusing on in-home discovery and sale of fine art prints. Technologies used include Ruby on Rails, Backbone.js, CoffeeScript, and numerous cloud-based providers including EngineYard for hosting, Semaphore for continuous integration, and Trello for project management.

October 2009–June 2012
Software Engineer, *Avenue 100 Media Solutions*, Woburn, MA.
Developed functionality for Ruby on Rails-driven online marketing web application with over 2 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.

June–August 2007, May-July 2008, May-September 2009
Software Developer, Intern, *CourseAdvisor*, Wakefield, MA.
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.
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.
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-Jubeh, 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, Test::Unit; automated server deployment: capistrano, chef; development environments: TextMate, emacs, vim.

Databases
Extensive experience with PostgreSQL, competent with MySQL. Some experience with non-relational data stores (Redis, MongoDB, TokyoCabinet).

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.