Curriculum Vitæ

Peter Danenberg
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Skills

Skill	Experience	Interests
ant	4 yrs.	
autoconf	1 yr.	
awk	2 yrs.	
bash	5 yrs.	
c	3 yrs.	Apache modules
c++	1 yr.	
CSS	6 yrs.	
Erlang	6 mos.	Yaws
git	1 yr.	
groff	3 yrs.	
Haskell	6 mos.	
html	12 yrs.	

Skill	Experience	Interests
Java	4 yrs.	Influence, JGraph
JavaScript	1 yr.	
LaTeX	6 yrs.	
MediaWiki	4 yrs.	WikiTeX
PHP	6 yrs.	MediaWiki
Python	3 yrs.	mod_tex, PsychSim
R	2 yrs.	Bioinformatics, Roxygen
Scheme	2 yrs.	SICP, CLRS
sed	2 yrs.	
SQL	6 yrs.	
UNIX	10 yrs.	Distributed arch.

Experience

Programmer Google, Inc. (Summer 2008)

Creating Roxygen, a Doxygen-like documentation system for R under the auspices of Google Summer of Code for the R Foundation.

Research Assistant Institute for Creative Technologies (Spring 2008)

Working on a machinima authoring system; including ReQUEST (narrative authoring), Cambot (cinematography), Story Director (event planning).

Statistician, Programmer Response Genetics, Inc. (2007–)

Processing copious amounts of bioinformatical data using the R programming language; creating a web-based patient accessioning and diagnostic service.

Research Assistant Information Sciences Institute (2005–2008)

Working under Stacy Marsella and David Pynadath on the PSYASE and PsychSim projects: a "multi-agent based simulation environment for computational social science."

Developer Wikimedia Foundation (2003–2006)

Maintaining the mod_tex distributed rendering engine, and integrating it with MediaWiki through WikiTEX.

Projects

Roxygen (roxygen.org) Roxygen is a literate programming system for R; which provides in-source specification of Rd, collation/namespace directives and call-graphs.

mod_tex (modtex.org) mod_tex is a distributed rendering architecture for untrusted tasks utilizing unprivileged, chrooted dæmons on arbitrary machines.

WikiTEX (wikitex.org) WikiTEX is a mod_tex client for MediaWiki; implementing music, math, chemistry, chess, etc. plugins.

Astroharmony (astroharmony.org) Astroharmony implements Pythagoras' *musica universalis* by assigning an audible frequency to each planet based on the period of its revolution, and simulating their motion with a Keplerian model of the solar system.

Wizard Book (wizardbook.org) Wizard Book is an attempt to converge on canonical solutions to SICP.

I've also contributed to the open source projects R (r-project.org), Gnuplot (gnuplot.info), Maxima (maxima.sourceforge.net), Chicken Scheme (callcc.org), and Emacs (gnu.org).

Publications

Danenberg, P., S. Marsella, L. Miller, S. Read, M. Si. 2007. "Modeling Belief- and Attitude-Change in a Coherence-Network." *4th Lake Arrowhead Conference on Human Complex Systems.*

Banerjee, D., R. Gorlick, A. Liefshitz, K. Danenberg, P. C. Danenberg, P. V. Danenberg, D. Klimstra, S. Jhanwar, C. Cordon-Cardo, Y. Fong, N. Kemeny and J. R. Bertino. 2000. "Levels of E2F-1 Expression Are Higher in Lung Metastasis of Colon Cancer As Compared with Hepatic Metastasis and Correlate with Levels of Thymidylate Synthase." *Cancer Research* 60: 2365-2367.

Education

2004–	University of Southern California	Research assistantship (Computer Science)
2002–4	Albert-Ludwigs Universität (Freiburg)	
2000–2	Harvard University	Research fellowship (Comparative Literature)
2000	Alliance Française (Paris)	
2000	Humboldt Universität (Berlin)	
1999	Albert-Ludwigs Universität	
1999	Alliance Française	
1998	Διεθνές Κέντρο Ελληνικών και Μεσογειακών Σπουδών (Athens)	
1997	University of Cambridge	
1995–2000	University of Southern California	Bachelors (Piano, German, Classics, Philosophy)