

Kelly John Rose

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Summary of Skills and Abilities

On-the-job programming and design experience with C, C++, Java, PHP, .Net, Maple, Mathematica, Latex, Javascript, XHTML, Lisp, Assembler Programming, RPG/400, Python and Perl.

Experience with all major Operating Systems, including Windows (both as a client and server), Mac OS X, Linux (Ubuntu, Red Hat, SuSe), Unix and IBM i.

Database management experience with MySQL, Postgres and MSSQL.

Knowledgeable with most popular research and programming applications including vi, T_EX, L^AT_EX, Subversion (SVN), OpenOffice.org, MS Word, Excel, Adobe Photoshop.

Effective project and business manager with more than 2 years experience, including bringing a complex software product from conception to production and more than 3 years executive business administration experience.

Working design and development experience in financial analysis, complex systems analysis, statistical analysis, biological networks, security, cryptography, error correction, network management, and quantum computation.

Work Experience

PANDA ROSE CONSULTING STUDIOS INC.

CEO, April 2010–present.

Raising capital for and managing development of an advanced, innovative web software product for content management and generation.

Developing financial analysis software using data from the TSX and TSXV to rate and determine value of a given portfolio.

Engineering an accounting method to quantitatively measure long term financial risk when an organization uses triple bottom line accounting.

Managing client relations and sales.

Adminstrating business, including but not limited to human resources management and accounting.

A.P. & ROSE CONSULTING STUDIOS

Partner, November 2008–August 2010.

Developed fully accessible websites fitting the WCAG AAA guidelines.

Engineered and programmed multiple content management systems using PHP, MySQL and Linux.

Advised and implementing Wordpress environments based on client needs.

Managed a variety of social media sites, including TweetCommons.

Implemented a variety of Moodle sites given customer needs.

Created video transcoding environments in PHP and coldfusion.

Maintained Ubuntu Linux and windows 2003 servers ensuring near 100% uptime.

INSTITUTE FOR BIOCOMPLEXITY AND INFORMATICS, UNIVERSITY OF CALGARY

Research Assistant, Summer 2006–April 2009.

Applying ecological measures to economic input-output data.

Worked on developing tools to interpret the imagery from the inCell 1000.

Presented a variety of papers on mathematical biology and ecology.

Developed a paper demonstrating that dynamical criticality is related to maximum power efficiency for boolean networks with certain properties.

Programmed mean field model simulations using Mircea Andreucut's mean field model for genetic regulatory networks.

INSTITUTE FOR QUANTUM COMPUTING, UNIVERSITY OF WATERLOO

Research Assistant, Software Developer, Winter 2005–Summer 2006.

Developed a optimizing compiler in C++ , Bison and YACC for creating nuclear magnetic resonance pulse programs to do quantum computation.

Implemented a software development environment for the NMR group.

Education

M.Sci Applied Mathematics, University of Calgary, 2009.

B.Math. Combinatorics and Optimization, University of Waterloo, 2005.

Honours with Distinction, Computer Science Minor, Cooperative Degree

Completed Works

M.Sci. Thesis: "Continuous Models of Genetic Regulatory Networks and the MULTISTABILITY problem."

Published Papers

"Maximum Power Efficiency and Criticality in Random Boolean Networks," with Hilary A. Carteret, Stuart A. Kauffman in *Physics Review Letters* 101 (2008).

Conferences and Workshops Attended

International Conference on Science and Spirituality, Fetzer Institute, June 13-20, 2009.

The Economic Crisis and its Implications for The Science of Economics, Perimeter Institute, May 1-4, 2009.
Presented on my work applying ecological modelling measures to Leontief data in the US economy in an attempt to find a measure of stability and resiliency in the economy

Search and Knowledge Building for Biological Datasets, IPAM, November 26-30, 2007.

Last updated: September 30, 2010

<http://kjro.se/resume.pdf>