

KELLY JOHN ROSE

CEO, PANDA ROSE CONSULTING STUDIOS INC.

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SUMMARY OF SKILLS AND ABILITIES

- Effective project and business manager with 5 years of experience, including bringing immix, an extensive web framework conception to production.
- On-the-job programming and software design experience with PHP, C, C++ , Java,.Net, Maple, Mathematica, Latex, Javascript, XHTML, HTML 5.0, 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, TEX, L^ATEX, Github, Sub-version (SVN), OpenOffice.org, MS Word, Excel, Adobe Photoshop.
- 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.

- Raised 25k of initial capital to successfully develop immix, a web framework for virtual private social networking, middleware and content management and generation.
- Managed development of human resource immix module used by over 3000 users a day.
- Developed advanced financial software analyzing over 23,000 mutual funds and every stocks on the TSX and TSV to find highest ROI and long-term investment opportunities daily.
- Nurtured client relationships to increase sales to 500k in 2012.
- Implemented cost saving program and effectively cut overhead costs by 30% in 2 months.
- Directly managed 5 employees and dozens of subcontractors.
- Administrated business, including but not limited to human resources management and accounting.
- Developed hundreds of quality, interactive educational HTML web pages used by thousands daily.

A.P. & Rose Consulting Studios

Partner, November 2008–August 2010.

- Developed multiple fully accessible websites satisfying WCAG AAA.
- Engineered and programmed appliki, a resource management systems using PHP and MySQL.
- Advised on and implemented Wordpress environments based on client needs.
- Implemented Moodle as CMS, and Moodle as LMS.

- Developed video transcoding and archive environments in PHP with over 1000 videos on it in WMV and H264 format and which receives thousands of hits daily.
- 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.

- Worked on developing tools to interpret the imagery from the inCell 1000 in order to determine differentiation of HL-60 haemopoetic cancer stem cells for high throughput testing of drug candidates.
- Wrote as co-author a PRL paper demonstrating that dynamical criticality is related to maximum power efficiency for boolean networks with certain properties.
- Programmed mean field model simulations for genetic regulatory networks research.
- Researched genetic regulatory networks and demonstrated that finding toggle switches is a NP-Complete problem while presenting heuristics for special cases.

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, increasing speed of generation from around 1 minute to less than 2 seconds.
- Implemented a software development environment for the NMR group.

EDUCATION

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

- Courses include:
 - Elliptic Curve Cryptography (paper: Elliptic Curve hash functions)
 - Cryptanalysis (paper: Cryptanalysis Methods on AES)
 - Topology (paper: Graph colouring and the “Hairy Ball” theorem)

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

- Honours with Distinction, Computer Science Minor, Cooperative Degree

⌈ Last updated: 20 March 2013
<http://kjro.se/resume.pdf> ⌋