Philipp K. Janert, Ph.D.

Contact:

Email: janert@ieee.org
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Web: www.beyondCode.org
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Overview:

- Analytics expert
- Author of two books on data analysis
- Ph.D. in theoretical physics

Books:

Data Analysis with Open Source Tools
        O'Reilly (2010)

Gnuplot in Action: Understanding Data with Graphs
        Manning Publications (2009)

Contributions:

Statistics::KernelEstimation
    A Perl module (CPAN) for Kernel Density Estimation of statistical data sets.
HTML::Dashboard
    A Perl module (CPAN) for metrics dashboards and reports.
Graphics::ColorUtils
    A Perl module (CPAN) for color management.

Technical Expertise:

Languages	Perl, Python, Java, C/C++
Databases	SQL; Oracle, MySQL, PostgreSQL, SQLite
Markup	HTML, XML, DocBook, WAP/WML; LaTeX2e
Platforms	Unix/Linux toolchain
Modeling	OOA&D, UML, ER Diagrams, Database Design

Professional Experience:

2008- **Owner, Principal Value, LLC; Seattle, WA**
Principal Value provides consulting services to corporate clients in the following areas:
- Data Analysis
- Mathematical Modeling
- Business Intelligence
- Corporate Metrics

2010-2010 **Author, "Data Analysis with Open Source Tools" (O'Reilly, 2010)**
A comprehensive introduction to data analysis for a technical audience.

2007-2009 **Author, "Gnuplot in Action" (Manning Publications, 2009)**
A book on graphical data analysis using the Gnuplot program.

2003-2006 **Technical Program Manager, Amazon.com; Seattle, WA**
2006 Technical Program Manager, Transaction Risk Analytics
Developed a new process to reduce an so-far unrealized form of bad debt, from initial inception, through a workable prototype. Handed project off to implementation team.
2005 Technical Program Manager, TransShipment
Developed and delivered a new materials handling process, which saves Amazon.com $1.5 million (net) per year in outbound shipping cost.
2004 Process Engineer, Strategic Task Force (Fulfillment Ops)
Developed analytical predictive models for worker productivity and rolled out new labor management tools based on them.
2003 Process Engineer, Order Picking Team
Plant Liaison, Sponsor for several Six Sigma Black Belt projects in Amazon's fulfillment centers.

2002 **Web-tier Engineer, AltaServ Inc; Kirkland, WA**
Architecture, design, and implementation of a 3-tier, web-based workflow automation and document management system for the insurance industry using J2EE.

2000-2001 **Project Manager & Technical Lead, Netcommerce LLC; Seattle, WA**
Architecture, design, and implementation of a component based, highly scalable n-tier transaction processing engine, for wireless and web-based eCommerce applications using Java and Apple WebObjects.

1998-2000 **Software Consultant, iteratec GmbH; Frankfurt, Germany**
Analysis, design, and implementation of a 3-tier Client/Server information retrieval system for the airline industry using C++ and BEA Tuxedo on Unix.

Education:

1997-1998   Postdoctoral Fellow, MPI fuer Polymerforschung, Mainz, Germany
1992-1997   Ph.D. in Theoretical Physics, University of Washington, Seattle, WA
1991-1992   Graduate Studies, Mainz, Germany
1989-1991   Undergraduate Studies, Goettingen, Germany

Selected Publications:

Data Analysis with Open Source Tools
       O'Reilly, November 2010
       http://oreilly.com/catalog/9780596802363

Gnuplot in Action – Understanding Data with Graphs
       Manning Publications, August 2009
       http://www.manning.com/janert

A Tale of One Application, a Group of Users, Two Languages, and a Few Tools
       InformIT, April 2007
       http://www.informit.com/articles/article.asp?p=715006&rl=1

Advanced HTML::Template: Filters and Widgets
       O'Reilly Perl.com, November 2006 and February 2007
       http://www.perl.com/pub/a/2006/11/30/html-template-filters.html
       http://www.perl.com/pub/a/2007/02/02/htmltemplate-widgets.html

Embedded Databases
       O'Reilly Perl.com, September 2004
       http://www.perl.com/pub/a/2004/09/12/embedded.html

Practical Database Design, Parts 1 and 2
       IBM developerWorks, May/June 2003
       http://www-106.ibm.com/developerworks/web/library/wa-dbdsgn1.html
       http://www-106.ibm.com/developerworks/web/library/wa-dbdsgn2.html

Patents:

US Patent 7,243,001   Time-based warehouse movement maps
US Patent 7,246,706   Sorting using modular stations
US Patent 7,331,471   System and method for modular sorting stations

Last updated: November 2010