

# Frank Worsley

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http://frank.zinepal.com

## Qualifications

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- Technologies: Java and J2EE (expert); PHP, HTML, CSS, JavaScript, XPath, SQL (advanced); Visual Basic, C/C++, XML, XSL, XML-FO, SOAP/WSDL, REST (productive)
- Frameworks: Swing, Spring (expert); Seam, Hibernate, JSF, jQuery, Prototype.JS (advanced)
- Software: Ant, Maven, SVN/CVS, JBoss, Tomcat, JProfiler, Drupal, Oracle, MySQL, PostgreSQL

## Work Experience

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### **Heart Force Medical Inc. (November 2008 – Current)**

#### **SOFTWARE ENGINEER**

Development of a management system for ballistocardiography data and devices. Web frontend based on Seam, Hibernate, Icefaces, Prototype.JS, and Tomcat. Custom AJAX components. JNI interface to backend analysis algorithms. In compliance with FDA clinical software development regulations.

### **GenoLogics Life Sciences Software Inc. (September 2004 – October 2008)**

GenoLogics provides an integrated scientific data management system for drug discovery research based on a JBoss/J2EE platform, Spring/Hibernate application framework and Swing rich-client.

#### **PROJECT IMPLEMENTATION MANAGER**

Manager of a global implementation project at one of the world's largest pharmaceutical companies. Responsible for technical architecture, requirements analysis, solution design, implementation logistics, and overall project success. GenoLogics software will be implemented at four locations in three countries. Previously successfully managed a year long pilot project.

#### **SOFTWARE APPLICATIONS SPECIALIST**

Technical lead of the professional services team. Responsible for the technical direction of customer-driven development projects. Worked with a variety of customers and technologies to integrate GenoLogics products. Developed many extensions to the product platform, such as:

- An integrated software pipelining framework for bioinformatics processing based on a light-weight pluggable Spring architecture and JMS for job distribution and queueing.
- Added a JBossWS/SOAP based web services framework to the product.
- Removed JBoss and updated the platform to be based only on Spring with Hibernate, ActiveMQ, ACEGI security, and embedded Tomcat.

#### **FIELD APPLICATIONS SPECIALIST**

Traveled extensively to assist in the sales process, attend tradeshow and support customers. Developed custom product features for sales demonstrations and customers.

#### **SOFTWARE DEVELOPER**

Started as the 5th developer and 9th employee of the company. Developed new features under extremely tight deadlines with no formalized requirements. Introduced coding guidelines, code reviews and new development tools. Substantially redesigned the Swing rich-client of the product.

### **Self Employed (2004 – Spring & Summer)**

#### **WEB DEVELOPER**

Developed the ExamsForSale.com website for the copy center at the University of Victoria. It allows students to purchase, view, and print old exams online. Also created a website for a private company and the German consulate in Vancouver. It served as a social networking site for the German-Canadian community in BC. The website was developed using Drupal and PHP/MySQL.

### **Business Objects SA (2003 – 8 months co-op)**

#### **SOFTWARE DEVELOPER**

Member of the New Initiatives Group. Worked on a Java Swing based "visual" IDE for a Haskell-like functional programming language. Created the API and the UI for a language metadata system to attach metadata to any language construct. Further enhanced a technology that intelligently suggests possible code paths to the user.

### **Voice Mobility Inc. (2001 to 2003 – 8 months co-op, then part time)**

#### **SOFTWARE DEVELOPER**

Developer of telephony system test software and configuration utilities. The software tested the web and telephone interfaces of a Unified Communications system and was developed in Visual C++. Configuration utilities rapidly configured a system and were developed in Visual Basic.

### **Personal and Volunteer Experience**

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#### **www.zinepal.com (Personal Project, January 2008 – Current)**

Zinepal allows users to create printable magazines from online content. Custom heuristics, DOM, XPath, XSL, XML-FO and Apache FOP are leveraged to extract content from online sources, format it for printing and create PDFs. The frontend makes use of Drupal, MySQL, PHP and jQuery to create a highly interactive website.

#### **File Type Manager (Personal Project, 2000 – 2002)**

A utility to manage Windows file types, actions and shell extensions. Developed in Visual Basic 6 and downloaded over 35,000 times. Still popular today and still works on Windows Vista.

#### **GNOME Project (Contributor, 2001 – 2004)**

Improved various components of the GNOME desktop, including the GNOME Panel and Nautilus file manager. Gained experience in open-source and Linux development using autotools, C and GTK+.

#### **Direct Rendering Infrastructure Project (Contributor, 2001 – 2002)**

Created a driver packaging and installation script for the DRI graphics card drivers. The script automatically configures the X server and kernel modules for the user.

### **Publications**

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I have contributed to several posters presented at industry conferences:

- Accelerating Proteomics through Integrated Data Management and Bioinformatics Pipelining (Poster, HUPO 2008, Amsterdam)
- Development of an Analysis Pipeline and Data Sharing Tool within a Proteomics Data Management System (Poster, HUPO 2006, Long Beach)
- Flexible, Integrated, and Robust LIMS Informatics Pipeline with Results Analytics Views at Scripps Florida (Poster, HUPO 2006, Long Beach)
- An Integrated LIMS and Bioinformatics Pipeline for Proteomics and Biomarker Discovery (Poster, HUPO 2005, Munich)

### **Education**

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#### **University of Victoria, Victoria, BC (1999 – 2004)**

Bachelor of Science in Computer Science (Business Option) with Distinction

#### **Glenlyon-Norfolk School, Victoria, BC (1997 – 1999)**

Highschool Graduation with Distinction, International Baccalaureate in English and Physics