

Frank Worsley

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Work Experience

Heart Force Medical Inc. (November 2008 – Current)

SOFTWARE ENGINEER

Developing software for a digital Ballistocardiography medical device used to assess cardiac function. Responsible for the development of web-based applications for clinical data management and analysis, as well as mobile applications for data collection. Software development conducted in compliance with the ISO 13485 standard and the FDA guidances for software development. Mentored other engineers in the use of unit testing, web technologies, XML schema design and other development best practices.

Web applications were hosted in-house and based on JBoss Seam, IceFaces, Hibernate, MySQL and Apache Tomcat. Mobile applications were developed for BlackBerry, Android and iPhone; connected over the phone network to an analysis & diagnosis system written in Java and hosted on Amazon EC2.

zinepal.com (May 2008 – Current)

FOUNDER

Zinepal allows users to create eBooks and PDFs from online content. It is used by bloggers and businesses to reach additional audiences with their existing content. The web service was developed and marketed in my spare time and built into a profitable, low-maintenance venture.

Custom heuristics, DOM, XPath, XSL, XML-FO and Apache FOP are combined to extract content from online sources, re-format it and create eBooks. The frontend uses Drupal, MySQL, PHP and jQuery to create a highly interactive website.

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

Managed an implementation project at a large pharmaceutical company across four sites in three countries. Responsible for overall project success, including business analysis, technical architecture and implementation logistics. Previously successfully managed a one year pilot project.

SOFTWARE APPLICATIONS SPECIALIST

Responsible for business analysis and technical direction of custom development projects. Developed a variety of product additions, such as:

- A data pipelining framework for bioinformatics processing based on a pluggable Spring architecture and JMS for job distribution and queuing.
- A JBossWS/SOAP based web services framework.
- Prototyped a light-weight application platform based on Spring, Hibernate and ActiveMQ to remove a product dependency on JBoss.

Also traveled extensively to assist in sales, attend tradeshow and consult with 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

Used PHP/MySQL to develop the ExamsForSale.com website for the University of Victoria. It allows students to purchase, view, and print old exams online. Used Drupal to create a German/Canadian social networking website for the German consulate in Vancouver.

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

SOFTWARE DEVELOPER

Member of the New Initiatives Research 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. 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

Developed system test software and configuration utilities for the web and telephone interfaces of a Unified Communications system using Visual C++ and Visual Basic.

Personal and Volunteer Experience

File Type Manager (Personal Project, 2000 – 2002)

A utility to manage Windows file types, actions and shell extensions. Developed in Visual Basic and downloaded over 40,000 times. Still popular today and still works on Windows 7 and 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+.

Qualifications

- Technologies: Java and J2EE (expert); PHP, HTML, CSS, JavaScript, XPath, SQL (advanced); Python, Visual Basic, C/C++, XML, XSL, XML-FO, SOAP/WSDL, REST, HL7 (productive)
- Frameworks: Swing, Spring, Seam, Hibernate, JSF, IceFaces, jQuery, Prototype.JS, Drupal
- Mobile: Android & BlackBerry native development, iPhone web development
- Software: Ant, Maven, SVN/CVS, JBoss, Tomcat, Oracle, MySQL, PostgreSQL

Publications

I have co-authored 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

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

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

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

High school Graduation with Distinction, International Baccalaureate in English and Physics