

Carl Forde

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Professional Experience

Lead Application Developer at Realtour LLC

<http://realtour.biz>

January 2010 to Present

Led a geographically distributed team (Canada, the United States and Europe) in the design and implementation of a complex set of eCommerce web applications used to create marketing materials for the real estate industry. The applications are built on a Linux, Apache, MySQL, PHP (CakePHP), JavaScript (jQuery) and Mac OS X stack.

Designed and implemented a new Virtual Tour player based on HTML5 that works on both desktop and mobile devices.

Designed and implemented an interactive application for creating flyers and brochures using drag and drop image placement, in place rich text editing, and InDesign to dynamically render PDFs.

Implemented three payment processing methods using PayPal APIs to provide customers with their choice of payment method.

Upgraded systems and applications to handle triple the sales revenue.

Web Application Architect at Premier School Agendas

<http://premier.ca>

July 2004 to August 2009 - Technology Solutions Group

Led a five person multi-department project team developing the Customizer web application that is used by over 2000 customers representing more than 20% of revenue annually. The Customizer is implemented using Linux, Apache, PostgreSQL, Perl(Mason) and JavaScript (Ajax). It is designed to be scalable, serviceable, reliable, easy to use and easily extensible.

Led the development of Premier Campus which was built on Moodle using PHP and MySQL. It was designed to be the central location for all of Premier's student and teacher related online products.

Implemented a problem tracking system using FogBugz which improved project management, inter-departmental communications and work flow yielding better working relationships.

Implemented a source code management system using Subversion which enabled developers to work with greater independence, improve change management and track the history of changes.

Entrepreneur at Storm Lantern Solutions

<http://stormlantern.ca>

July 2002 to Present

Designed and implemented a web application for the premier issue of the SFU Educational Review using Open Journal Systems which is written in PHP and MySQL. <http://journals.sfu.ca/sfuer>

Redesigned and rewrote the interface of a web based calendaring system to improve its usability and support additional web browsers.

Designed and developed web sites to customer specifications in conformance with modern web standards. Provided photography and image editing services.

Founder of the Fraser Valley Linux Users Group: <http://fvlug.ca>

Technical Instructor and Application Engineer at BackWeb Technologies

<http://backweb.com>

October 2000 to January 2002 - Education Services

May 1999 to October 2000 - Professional Services

Trained customers and internal employees, ranging from technical support people to senior managers. I covered the full range of BackWeb products and capabilities.

Designed and developed new classes including PowerPoint presentations, examples and quizzes for teaching new products. Revised class materials to maintain product currency.

Created a portable classroom network consisting of a network switch and 15 laptops loaded with the full suite of BackWeb software. This eliminated a dependency on customers' equipment which enabled new training opportunities.

Led multi-disciplinary teams in the design and implementation of custom solutions using BackWeb, Perl, IIS, SQL Server and BEA WebLogic running on Windows NT Server and Sun Solaris.

Provided consulting services to business partners who were incorporating BackWeb technology into their products.

Senior Systems Architect at Beyond Software

April 1996 to May 1999 - Research and Development Group

Led the development of EnterpriseView, a commercial version of the Open Source web browser Charlotte.

Designed and developed new features for EnterpriseWeb/VM, a native VM web server.

Designed an XML application to translate browser requests to host filenames and actions for EnterpriseWeb/MVS, a native MVS web server.

Designed and developed a web interface for an enterprise calendaring system (Office Vision/VM) using REXX, CMS Pipelines, JavaScript and HTML. This provided a graphical calendaring interface to anyone with a web enabled PC.

Senior Technical Analyst at British Columbia Systems Corporation

November 1992 to March 1996 - VM System Software Support Group

September 1987 to November 1992 - VM Database Development and Support Centre

Designed, developed and successfully tested the DB2/VM database Disaster Recovery Plan. Presented the plan at user groups in Victoria, Los Angeles, New York and Boston.

Responsible for the security, recovery and technical support for over 40 database servers.

Led the development of Charlotte, a native VM web browser that enabled thousands of companies to provide web access to their employees who did not have access to an internet connected PC.

Education

Simon Fraser University, Burnaby, B.C.

Ph.D. Educational Technology and Learning Design, 2018

Awarded a President's PhD Research Scholarship for 2012

Awarded a Graduate Fellowship for 2008/2009

Thesis: Design and usage of a private margin on public online discussions: Experiences from semester-long mixed-mode courses

M.A. Education and Technology, 2008

Thesis: A Virtual Margin for Knowledge Work on the Web: Design, Implementation and Usability Testing

University of Victoria, Victoria, B.C.

B.Sc. Combined Computer Science and Mathematics, 1987