Brian Danchilla

Software Developer / Consultant

Brian Danchilla provides web based data solutions, and offers the modernizing and troubleshooting of legacy applications.

Equipped with knowledge of the full stack - front/backend, database, server, devops, he is ready to work on any project.

Brian Danchilla has a proven track record of using industry best practices, techniques and tools to get a job done not only quickly, but also correctly and maintainably.

Preferred Tools: Laravel, Angular, Vue, Linux, AWS

Knowledge

Languages

PHP, 12 years
JavaScript, 14 years
SQL, 13 years
NoSQL, 4 years
HTML / CSS, 15 years
Java / C++, 6 years

Frameworks

- Angular 2+
- Laravel
- Bootstrap

Libraries

- jQuery
- Facebook API
- chart.js
- WebGL

Sysadmin / Devops

- Linux Server Setup
- AWS
- Digital Ocean
- Docker

Productivity / QA Tools

- git
- Typescript
- sass
- Shell scripting
- Unit / integration testing

Analysis

- Optimization
- Statistical Reports
- Bug Tracking

Employment

Software Developer & Consultant   2011 - Present

Brian Danchilla

Technologies: Laravel, Vue, Angular 2+, Linux, AWS

- Security and performance consultations
- Admin and client portal systems
- AWS EC2, S3, RDS integration
- Reports, charting and visualizations
- Custom shell scripts for server admin automation
- Created a custom program for a client to scrape car advertisements on a large classified site and cross reference against recent auction results.
- Integrated automated and manual online payments with merchant gateway APIs using XML and cURL.
- Designed a new REST API that combined a client's existing MVC and Symfony components and customizations.
- Troubleshot and fixed browser CSS, JavaScript, and back-end logical bugs.
- Found and fixed webpage and script performance bottlenecks and memory leaks using XDebug, a custom profiling library, and database explain statements.
- Upgraded legacy systems to separate MVC logic and use best practices.
- Added unit tests with PHPUnit and behavioral tests with Behat.

Author & Technical Reviewer   2008 - 2014

O'Reilly, Apress

Technologies: PHP, WebGL, JavaScript, Physics

- Authored "Beginning WebGL for HTML5, 2012", a book about using the new WebGL canvas API 3D context.
- Contributed as an author to "HTML5 Games Most Wanted, 2012". Wrote a chapter on WebGL programming.
- Served as technical reviewer for "Foundation HTML 5 Animation with JavaScript, 2011". Performed a technical review for the book's 2D Canvas context.
- Co-authored "Pro PHP Programming, 2011". Wrote on the topics of JSON, XML, AJAX, security, social media APIs, libraries, refactoring, unit testing, and continuous integration.
- Served as technical reviewer for "Physics for JS Games and Simulations", a book using the 2D canvas API with a heavy emphasis on physics equations.
- Served as a technical reviewer for "PHP: The Good Parts", a book about the good and bad parts of the PHP language.

Software Developer   2010 - 2011

FrontLogic

Technologies: Java, VOIP, C++, PHP

- Created a VOIP desktop client using the Java and C++ libraries (JNA).
  Worked with the Session Initiation Protocol (SIP) and PJSIP library.
- Made GUI revisions using Swing and third party libraries.
- Completed data processing of large CSV and XML automotive listings into a PostgreSQL database using PHP.
- Implemented Google Analytics and AdSense optimizations for analyzing keywords.

Senior Software Developer   2008 - 2010

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Technologies: PHP, HTML, JavaScript, Drupal

- Handled Drupal CMS customizations, including creating advanced AJAX search and Twitter feed modules.
- Implemented a SOAP client to process financial share transactions over SSL.
- Converted a legacy ColdFusion system into PHP.
- Created a reusable PHP utility library for projects.
- Upgraded and maintained websites to use more modern CSS, HTML, and jQuery widgets.

Computer Programmer   2006 - 2008

Chinook School Division

Technologies: PHP, MySQL, Drupal

- Created a custom inventory tracker for the computer department using PHP and MySQL.
- Created a work order system for the maintenance department using PHP and MySQL.
- Wrote a time sheet tracking system for payroll using jQuery, PHP, and MySQL
- Created and maintained a divisional website that used Drupal and LDap.
- Integrated third party libraries into custom eLearning software.

Knowledge Facilitator/Researcher   2002 - present

Various

Technologies: C++, PHP, MySQL

- Consultant on legacy and new PHP code systems (2013 - present)
- PHP course instructor for Paladin Business Solutions (2007)
- Summer research assistant and NSERC scholar (2002 - 2003) examining bioinformatics programs and open conjectures in number theory
- Worked as a university marker, teaching assistant, private tutor and at the mathematics help centre (2002 - 2004)
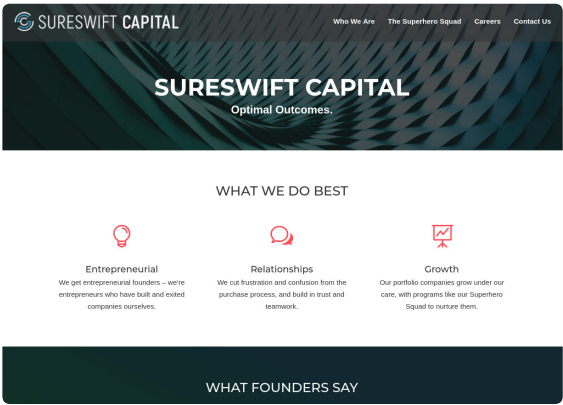
Education

BS with Double Honours Degree in Computer Science and Mathematics   2000 - 2004
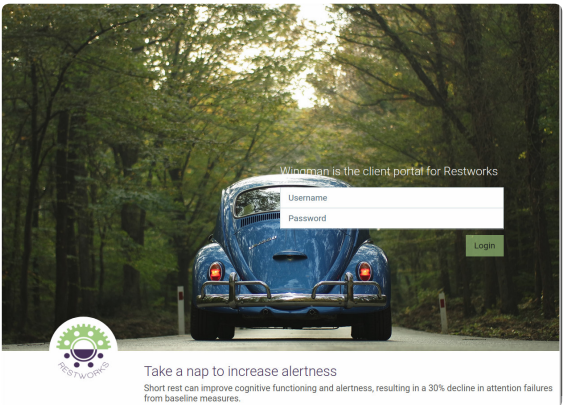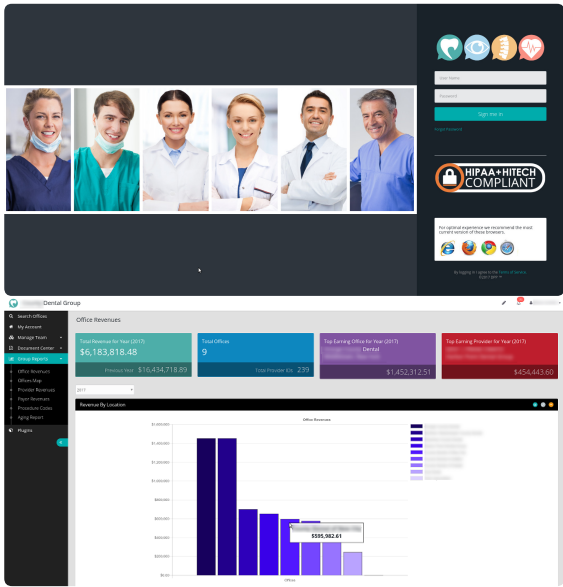
University of Saskatchewan

Portfolio

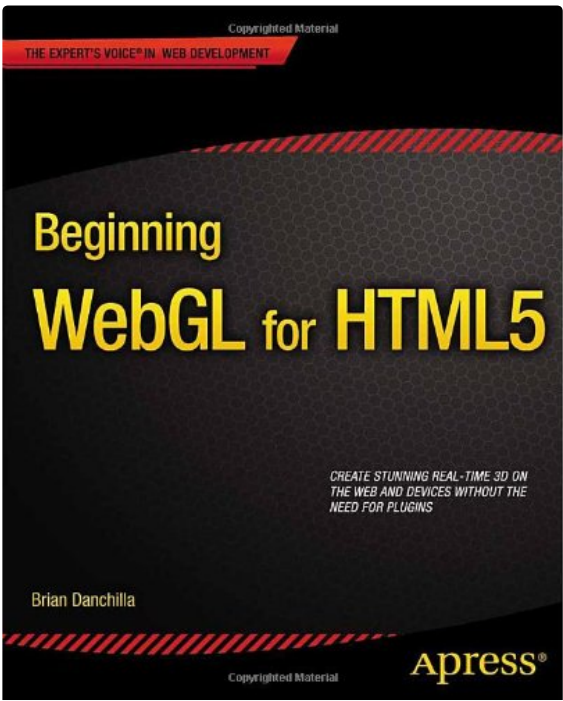Some of the projects and teams I am proud to have been a part of

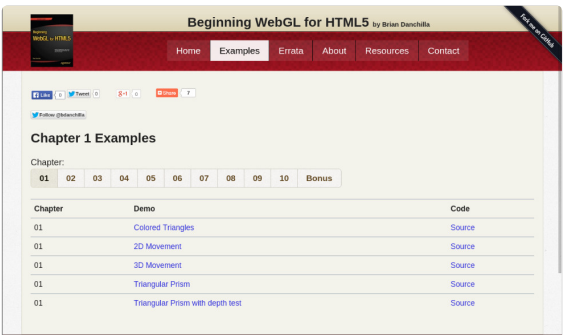## Sureswift Capital

Custom development, sysadmin work
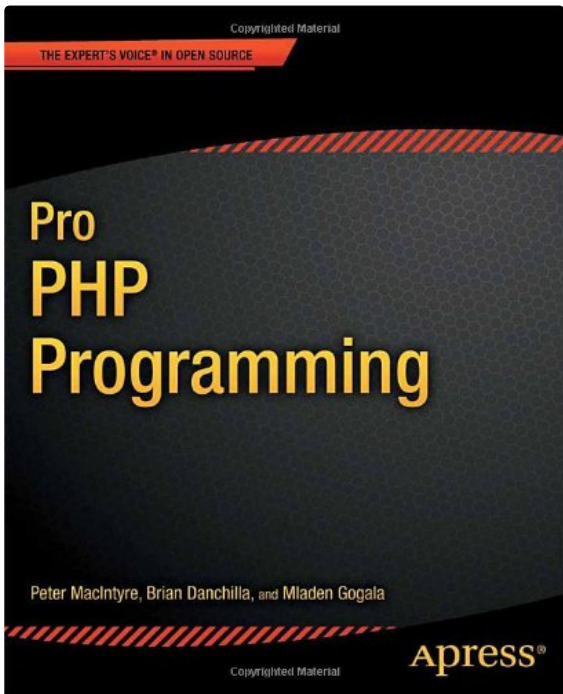
Metronaps

Front-end Angular development

Dental Practice Pro
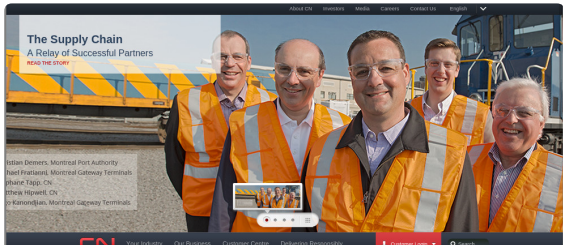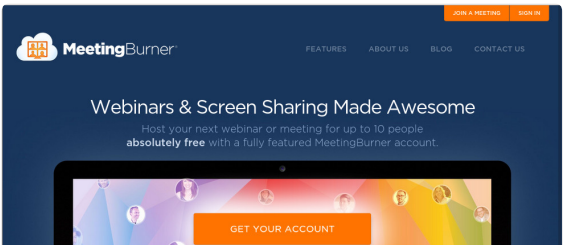
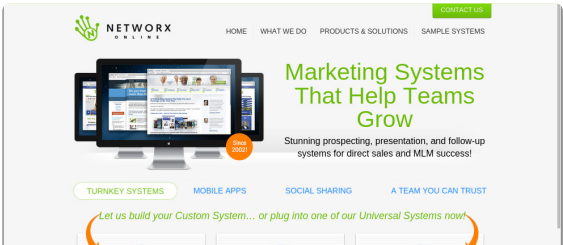Database, reporting, cloud service integration

Beginning WebGL for HTML5

2012 Author
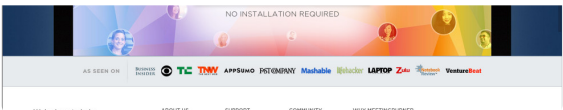
Beginning WebGL

Book companion website

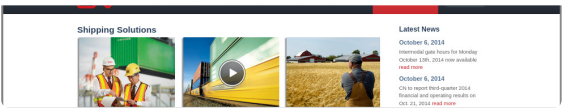## Pro PHP Programming

2011 Co-author

Networx Online
REST API, Payment Gateways

MeetingBurner®
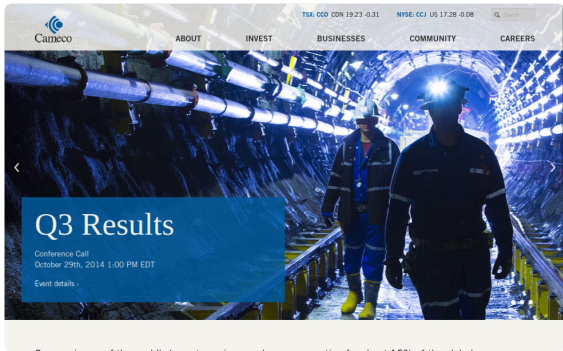Bug fixes and troubleshooting

CN Rail
Site redesign developer

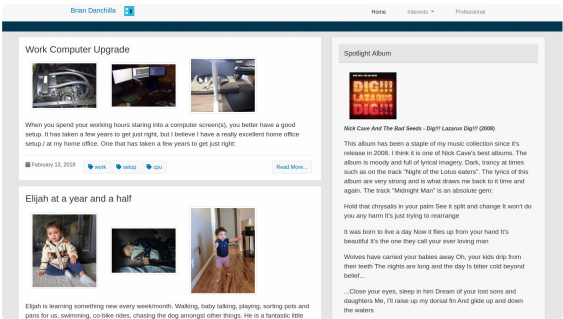## Cameco
Custom Development

Brian Danchilla
Personal website