

# Jonathan Weatherhead

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*Software Developer • Hobbyist Blogger • Internet Enthusiast*

## Education

Bachelor of Computer Science (Math minor) Magna Cum Laude  
Carleton University, Ottawa, 2009

Masters of Computer Science  
Carleton University, Ottawa, 2009 – 2010 (Completed first year)

## Notable Works

WordPress Plugin & Theme Directory contributions

Has authored several open-source plugins and themes to which their purposes are that of presenting content and augmenting site experience.

Carleton University Timetable Builder

The builder lists available disciplines/courses per semester, generates visual timetables based on user selection, and warns of conflicts.

Technical Reviewer for Packt Publishing

Has reviewed the technical validity of Yii Project Blueprints and offered insight on how to better impart the mechanics of the Yii framework.

## Skill Sets

- Expert in WordPress CMS, Yii Framework, PHP, JavaScript, XML, HTML5, CSS3, Java, Perl, C++
- Competent with Eclipse, MS Office, Photoshop, Apache, Tomcat, RoseRT
- Knowledge of web-driven applications
- Proficient in design patterns/architectures
- Skilled in MySQL and database architectures
- Experienced in Object Oriented architecture and various language paradigms
- Quick learner; keen to apply new technologies
- Experience in teaching (university TA)
- Bilingual

## Personal Characteristics

- Reliable, highly motivated, versatile
- Proven analytical and problem solving skills
- Strong communication skills
- Ability to work independently, and with team

## Web Presence

- Writes software for leisure, available @ <http://jonathanweatherhead.com>
- Writes personal blog @ <http://planetjon.ca>

## Work Experience

### Software Developer

#### Pointstreak May 2014 – Present

1. *Pointstreak Performance senior developer*
  - Integral role in planning architecture of full software stack with emphasis on backend/middle-tier.
  - Implements & maintains featureset of the Performance product.
  - Advises on which concerns require attention for security and scalability purposes with the focus on project planning.
  - Assists tech support in dealing with severe client issues and delivering urgent hotfixes.

### IT Consultant

#### Freelance 2014

1. *Website Design for university residence association*
  - Implemented custom WordPress theme leveraging the WordPress API and semantics of HTML5, and styled with CSS3.
  - Theme sports a natural Responsive design through CSS media queries and fluid layout for optimal display on both mobile devices and large screen displays.
  - Theme fully compliant with WordPress i18n/l10n API.
  - Theme designed to meet requirements tailored to the needs of the client.
  - Supplementary Loan Program inventory management system designed and implemented as WordPress plugin, integrated with concurrently designed site.
2. *Website Design for university election slate*
  - Implemented custom WordPress theme leveraging the WordPress API and semantics of HTML5, and styled with CSS3.
  - Theme sports a natural Responsive design through CSS media queries and fluid layout for optimal display on both mobile devices and large screen displays.
  - Theme fully compliant with WordPress i18n/l10n API.
  - Theme designed to meet requirements tailored to the needs of the client.

### **Prosar Inbound 2014**

#### *1. Data Store & Map Search tools for agricultural client*

- Integrated functionality with concurrently designed site as WordPress plugin.
- Architected & Implemented DB layer, middle tier, and UI for entering harvest & trial data.
- Leveraged Google Maps API for search capabilities on harvest & trial data.
- Implemented user-specific access and view of data.

### **Lixar I.T. August 2013 – May 2014**

#### *1. APBA Baseball fantasy league Architect*

- Collaborates in architecture paradigm and feature planning.
- Advises on technologies suitable for implementing project requirements.
- Identifies points of vulnerability and inefficiencies in codebase.

#### *2. APBA Baseball fantasy league Core Developer*

- Extends and patches middle-tier and front-end with project requirements manage through AGILE development principles and JIRA.
- Leverages WordPress and PHP to process user requests through controller logic, delegate to BI logic, and present the response through template views.
- Customizes BuddyPress and WordPress through hook API to unobtrusively inject and override custom behaviour.
- Adapts third-party extensions to appropriately augment site functionality.
- Leverages HTML5, CSS3, and JavaScript/jQuery to present site content in a modern and interactive manner.

### **Prosar Inbound 2013**

#### *1. Website Redesign for municipal government client*

- Designed custom WordPress theme, leveraging HTML5 semantics and CSS3 styles.
- Theme sports a natural Responsive design through CSS media queries and partial fluid layout for optimal display on both mobile devices and large screen displays.
- Theme fully compliant with WordPress i18n/l10n API.
- Theme is tested for cross-browser consistency and supports legacy browsers through polyfills.
- Custom functionality was isolated into WordPress plugin.

## 2. *Website Enhancement & Maintenance*

- Updates content & images for various sites.
- Enhances user experience With CSS & JavaScript.
- Applies and adapts third-party extensions to appropriately augment site functionality.
- Detects & heals malware injection attacks.

## 3. *Website Migration*

- Backs up existing site and redeploys to new host. Applies appropriate database transformations and environment integration customizations.

### **Confidential Client** *April 2013*

#### 1. *Blogging Site Overhaul*

- Designed new custom WordPress theme with content templates leveraging the WordPress API as well as the semantics of HTML5 and styling of CSS3.
- Theme inspired by various elements suggested by client with the intent of highlighting the articles and blogger in a professional light.

### **Phoenix Big Band** *March 2013 - April 2013*

#### 1. *Website Design*

- Designed custom WordPress theme with quality code templates leveraging the WordPress API as well as the semantics of HTML5 and beautifully styled with CSS3
- Incorporated existing branding into look & feel of site, with artistic license.
- Theme sports a natural Responsive design through CSS media queries and partial fluid layout for optimal display on both mobile devices and large screen displays.
- Theme is tested for cross-browser consistency and supports legacy IE through careful CSS tweaking and polyfills such as HTML5Shiv.
- Designed custom WordPress plugins with the purpose of providing specific functionality tailored to the needs of the client.
- Installed various plugins with the purpose of providing various content presentatic means, SEO, and Social Media outreach.
- Set up Social Media accounts on behalf of the band.

## Doyle Salewski inc April 2012 - February 2013

### 1. Website Landing Pages

- Designed localized landing pages for main site, leveraging main site's look & feel through a WordPress child theme.

### 2. Website Overhaul

- Re-wrote existing WordPress site theme with new quality code templates leveraging the WordPress API as well as the semantics of HTML5 and beautifully styled with CSS3.
- New theme sports a natural Responsive design through CSS media queries and partial fluid layout for optimal display on both mobile devices and large screen displays.
- New theme is tested for cross-browser consistency and supports legacy IE. through careful CSS tweaking and polyfills such as HTML5Shiv.
- Designed custom WordPress plugins with the purpose of providing specific functionality tailored to the needs of the client.

### 3. Custom Web-Driven Survey Tool

- Developed custom web-driven survey app with PHP and the Yii framework.
- Survey tool features front-end web form, and back-end administrative panel for creating new surveys and managing the questions as well as the skip logic.
- Survey tool displays dynamic summary page based on answers provided by user, and offers an *email this as PDF* feature.

### 4. Website Enhancement

- Developed custom Wordpress plugin for receiving user input and generating browser-independent vector charts with report. Plugin also features an *email this as PDF* feature. Plugin is fully customizable through Administrative panel.
- Designed WordPress custom post type for displaying location and contact information concerning the company's offices.
- Tweaked theme templates to better leverage the WordPress API and HTML5.
- Tweaked CSS to more consistently and efficiently style theme templates.
- Integrated several plugins with the capacity of providing web forms, boosting SEO, stats tracking, and increasing performance/response time.

## Additional Experience

### Cognos IBM May 2008 – August 2008

#### 1. Test Analyst (co-op)

- Implemented an Eclipse plug-in intended for showcasing custom UI

components.

- Investigated and resolved bugs in the custom UI components.
- Performed code coverage tests with JUnit ECL Emma.
- Investigated adequacy of the JUnit tests on the UI components.

#### **Cognos IBM** *January 2008 – April 2008*

##### 1. *Test Analyst (co-op)*

- Architected and implemented a robust test bench API extending the Selenium API tailored for select web-based products.
- Performed daily JUnit tests with extended Selenium API to ensure build sanity.
- Investigated and resolved minor layout and runtime issues.

#### **NavCanada** *May 2006 – December 2006*

##### 1. *Junior Software Engineer (co-op)*

- Architected a database for storing performance metrics..
- Architected and implemented a data collection daemon that processes computer performance metrics and populates the database with processed metrics.
- Architected and implemented a database maintenance daemon that performs maintenance on said database by archiving and removing old data.
- Designed and implemented a web-based GUI that provides functionality in querying the database, viewing results in coloured charts, and managing the relevant daemons.
- Developed several logfile parsers for information extraction/assertion.

#### *Interests*

- OpenSource software development
- PC hardware & building/fixing computers
- Digital photography (nature & urban), post-processing.  
Featured photography can be viewed at <http://mallorick79.deviantart.com>
- Computer games
- Travelling, reading, music
- Recreational sports and exercise

## *Volunteer Experience*

- Past member of Rotaract
- Developed website for Shumba Medical Society charitable organization
- Taught mathematics to grade 3 students through OCRI
- Canvasser for many charitable organizations including Cancer Foundation, Heart and Stroke foundation and Kidney Foundation
- Developed website for Serviam Association Canada non-profit organization
- Volunteer at Virtual Ventures

## *References*

Available on request

## *Personal Information*

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<http://jonathanweatherhead.com>