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Magenta Cuda

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Since 2012 I have been developing **WordPress/WooCommerce** plugins using **PHP 8**, **MariaDB 10**, **Bootstrap v5**, **Dart Sass 1.83** and **jQuery v3.7**. I have working knowledge of **WP-CLI**, **phpMyAdmin** and **KCachegrind**. My areas of expertise are the **pre-Gutenberg WordPress/WooCommerce PHP Core and REST API**. I desire remote work as a freelance **WordPress/WooCommerce PHP plugin developer (no Gutenberg)**.

My specialty is analyzing WordPress PHP code using **KCachegrind**. I have also developed my own tools for analyzing WordPress PHP code: **WMP** and **DDT**. **WMP** - WordPress Manual Profiler - is a tool for analyzing WordPress actions and filters. **DDT** - Database Debugging Tool - is a tool for diffing database tables before and after WordPress invocations.

#### Selected works:

- [Simple Variations](#)

**Simple Variations for WooCommerce** implements the variations of a WooCommerce variable product as the Cartesian product of its attributes. Some new techniques were found to overcome some difficulties with WordPress. I implemented a technique for wrapping WordPress's actions and filters. This allows the pre-processing of the arguments to and the post-processing of the result from a call to a hook in the context of the wrapper. I further found a technique for postponing the call to `wp_die()` so the wrapped hook returns to the wrapper instead of exiting. WooCommerce is inconsistent in instantiating some classes – some times it uses a factory and other times it directly uses “`new Some_Class( ... )`”. This makes it difficult to use subclassing as a means to override the methods of some classes. This was solved using some ugly ad hoc techniques that work. Further, since the Cartesian product may have a really huge number of variations and processing these variations may exceed PHP's execution time limit, it was necessary to implement a way for a single task to span multiple PHP sessions. Lastly, I wrote a proprietary implementation of virtual variations where the variations are dynamically computed from its components.

- [Backbone Bootstrap Gallery](#)

This is a WordPress plugin that implements WordPress galleries as a SPA using a **Backbone.js** Model-View-Presenter (MVP) populated via the **WordPress REST API**, styled by a **Twitter Bootstrap 3** stylesheet and with touch support provided by components from **jQuery Mobile**.