

Michael Edwin Smith

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Objective

Become a vital member of a development team where I will deliver a high quality, stable and scalable work product in a timely manner while continuing to learn from and mentoring other developers. I will strive to guide my team towards delivering business value through improving the DX (developer experience) alongside the UI (user interface) and UX (user experience).

Experience

Sentry Data Systems **Team Lead, 340B Software Development** **2014 - Present**

Sentry Data Systems has been providing healthcare organizations with data analytics and 340B management, compliance solutions and their Patient Data Intelligence Platform™, an unparalleled longitudinal database of de-identified patient data with 1,500 data fields and over 110 million unique records, since 2003.

- Promoted from Senior Developer to Team Lead after a year of service, resulting in guiding a team of 4 other developers.
- Team lead for Shared Product Components software development team, responsible for upgrading and maintaining key services shared across the flagship products such as user management, document security and job scheduling.
- Conducted performance reviews for a team of four developers including ongoing mentoring and personnel development.
- Tasked with guiding the overarching technical solutions for the team, ensuring the solution provided stability and scalability.
- Owned delivery of the team's software via hands-on coding and reviewing pull requests of team members prior to deployment.
- Conducted daily stand-ups, backlog grooming and functioned as the Kanban leader.
- Key project team lead for upgrading a 1.3 million line web application from PHP 5.3 to PHP 7 to ensure security compliance as well as future stability and scalability.
- Involved in many security-related projects including an on-the-fly password hashing upgrade to remove a very old and insecure hashing algorithm.
- Primary subject matter expert across all of the software development teams for the Symfony framework.
- Presented on XSS & CSRF and Symfony counter measures in an effort to continually educate other developers.

Textile Management Associates **Senior Web Applications Developer** **2010 - 2014**

Textile Management Associates is a large textile holding company, owners of well known brands such as AstroTurf® and SynLawn®. I worked with the web services team to develop a customized CRM solution for multiple business units.

- Developed internal CRM and served as design consultant for use of the Symfony framework (v1.4 and v2.3).
- Consumed external JSON and SOAP APIs for geolocation, address validation and cleaning.
- Provided a JSON API of customer information for integration with VOIP PBX to allow customers to quickly get information.
- Integrated with existing ERP accounting systems for importing and exporting data, saving time and data entry errors.
- Integrated with external Business Intelligence system for report generation, to speed new reports to production.
- Developed email parsing to store messages and attachments to a customers' projects and centralize communication.

High Caliber Services **Web Developer / DevOps** **2001 - 2010**

High Caliber Services is a quality outsourcing company for the automotive industry. When a quality issue arises, a supplier will contract with them to send individuals to perform a sort or rework activities. I developed an online web application to allow their customers to track the number of parts rejected or reworked for multiple issues and associated with traceability information.

- Initial developed and continually refined the Data Management System using the Symfony PHP framework.
- Integrated with external web services for invoicing, payment services, mapping and captcha.
- Developed several web applications using Symfony 1.0 and 1.3 with both Propel and Doctrine for internal use.
- Maintain email, web, database, file and CRM servers.

Education

Tennessee Technological University **B.S. Computer Science Information Systems** **1998 - 2003**

I graduated Cum Laude with a Bachelor of Science Degree in Computer Science Information Systems with a minor in Business Management.

Skills

PHP ¹

version 4 to 7.2

PHP CLI ¹

w/ & w/o Symfony

Composer ¹

NGINX & Apache ²

SOA ²

Laravel ³

Symfony ¹

version 0.6 to 4.1

MySQL & Oracle ¹

direct SQL and w/ Doctrine

PHPUnit & Mockery ¹

Redis & Memcache ²

Message Queues ²

React ³

RESTful API ¹

provision and consumption

MongoDB ¹

with GIS queries

Kanban & Scrum ¹

Automated Deployment ²

TravisCI & Codeship ²

Node.js ³

Caching ¹

http header and data

Javascript & jQuery

event binding, XHR, validation

Jira & Bamboo ¹

Elasticsearch ²

Behat / BDD ²

Docker ³

¹Major skills I used on a regular basis in work projects ²Moderate skills I used in work projects but infrequently ³Familiar skills that I have studied and used in side projects

Open Source Projects

Dyn DNS Kit

<https://github.com/michaelesmith/dyndns-kit>

<https://github.com/michaelesmith/dyndns-example>

This is a framework that will allow you to easily create and use a simple DynDNS implementation in PHP while being easily hackable to add new features and processors. This project was born out of my frustration in trying to find a simple PHP DynDNS implementation that would allow me to use Digital Ocean as the backend DNS.

Throttle

<https://github.com/michaelesmith/Throttle>

This project provides a basic throttling implementation that can be extended to a project's needs such as limiting the number of api hits or votes by a user identifying key (such as user id, ip address or session id). It uses a PSR-6 cache adapter so it can work with any backend needed by the application.

Metric Data

<https://github.com/michaelesmith/metric-data>

This is a library that allows for easy abstraction of metric data collection and storage, allowing it to be stored locally or via external API. These storages mechanisms can be used together to easily create storage scenarios for all environments (ie production, development, testing, etc) that will work interchangeable and can be stored in the application's configuration.

Other Projects

Flex Recipes

<http://flexrecipes.org>

Creator of this site which originally started as a testbed for experimenting with Symfony Flex but morphed into a full fledged project that met a need to ease the discovery and usage of new Symfony Flex Recipes.

This site was originally created with Symfony 3.4 prior to the release of 4.0. As a test project to learn and test out the new Symfony Flex, I went looking for a simple problem that needed solving. At the time there wasn't very much information published on the available recipes other than reading through the actual files on Github. This project pulls down the git repositories for the official and third party recipes and then uses various API's from github and packagist to gain more information about each project. The avatars are stored locally and cached versions are created for the various sizes needed with the Imagine library. This site takes advantage of the Deployer library along with some custom extensions I wrote to automate provisioning and deployment of this project.

Command

Not public at this time

This project aims to fill the gap from Cron to much larger and sophisticated tools like RunDeck. It relies on cron for scheduling but provides a web UI and offers conveniences like logging, failure notification and a retry schedule.

This site was also originally created with Symfony 3.4 to take advantage of the composition nature of Symfony Flex, since it only needed a few components instead of a full framework installation. In addition to the basic web components of Symfony this project also makes heavy use of the command line and process components to accomplish its goals.

UFindRentals

<http://ufindrentals.com>

Co-founder of this site which allows small local rental owners to list their properties with description, features list, images and maps. It also allows the searcher to filter the results in many ways to find the place that best suits their needs.

This site was originally created with Symfony 2.5, MongoDB and PHP v5.5 and has been upgraded over time. The application makes heavy use of the service container to allow for thin, manageable controllers. The Imagine library is used for on the fly scaling and caching of images. Bootstrap CSS v3 is used for a responsive desktop, tablet and mobile interface. Google's geocoding api is used to store a location's latitude and longitude for searching and map display. My object cache library is used to prevent numerous repetitive hits to this api for the same data. Also Google's map api is used for interactive maps allowing the user to scroll the map and load more results as needed. The geospatial features of MongoDB are used to allow the user to enter an address and see the rentals sorted by the distance. The site makes use of MailGun for offloading email delivery. Also the Keen IO web service is used to store and analyze event data, such as page views, messages sent and comparisons run. Rollbar API is used to track and alert both server exceptions and client JavaScript errors. My Throttle library was written for this site to prevent owners from receiving a flood of emails from a single user. This application also takes advantage of Deployer so deployments are quick, simple and repeatable, increasing the speed with which a deployment can be made and removing some of the stress of deploying new code to production.