Peter S. Gorgone

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SKILL SUMMARY

- Web programming: LAMP, PHP 7, MySQL, XML/JSON, HTML, CSS, Javascript/ES6, VueJS, JQuery, AngularJS, ReactJS, AJAX, RESTful APIs, OAuth
- CMS/MVC Frameworks: Laravel 5, Symfony, Yii, CodeIgniter, Wordpress
- Other programming languages: C (expert), C++ (advanced)
- Solid understanding of data structures, computer and web architecture
- Minimum Viable Product (MVP) and Agile/Iterative Development Experience
- Experience developing modern websites from end-to-end (PHP/database to CSS/HTML and everything in-between)
- Excellent debug/troubleshooting skills; expertise with github, PHP Storm, Chrome Inspector, gdb, Visual Studio

NEWLOGIX

Software Architect   **MAR '16 ~ PRESENT**

www.newlogix.com, *https://civixapp.com*

Architected and developed code for integrated suite of products including *CivixApp* and *Synergy*. The latter functions as both a CRM and CMS customized for project management in the utility and construction industries. Managed 3-person development team and outlined rigorous testing procedures for stable releases.

FREELANCE PROJECTS

WRITE EVOLUTION   **AUG '15 ~ FEB '16**

www.writeevolution.com

Write Evolution is a collaborative writing web application, that enables writers and editors to create novels and short stories together working online. Like most of my projects, I built out features of the site spanning from the back-end PHP and database to the front-end CSS and Javascript.

The site lets multiple authors write different versions of a chapter for a story. When all versions are complete, they are voted on and the winner is selected for editing before being published as part of the story. The process then repeats with subsequent chapters until the seed author decides the story is complete.

Other features include a built-in private messaging and notification system so contributors can easily communicate about story items like characters and plots, ability to browse and search stories by category or keyword, and a simple 'archiving' mechanism where an author can save drafts of a chapter, allowing them to access prior work as they continue writing.

CLSSFY   JULY '15 ~ JAN '16

www.clssfy.com

Clssfy.com is message board application for university students based loosely on reddit. Students can communicate about their courses, university-wide news or events, and other happenings related to their school. It also offers a backend business portal for restaurants and shops in the vicinity of the campus. Local businesses can register an account and post Groupon-like offers to attract students to their business.

I was approached by the founder to design and develop the site, and built a simple "Minimum Viable Product" in about a month. From there we added features and enhancements over the next several months. I coded the site using the PHP Laravel Framework, with a MySQL database. I setup a local development environment as well as both staging and production websites on Rackspace.

AXIOM IMAGES   FEB '14 ~ APRIL '15

www.axiomimages.com

Axiom Images is a growing e-commerce site specializing in aerial video footage.

I inherited Axiom Images from a prior developer. One of the first tasks was to optimize a search filter for the video category that had become unacceptably slow after the number of video products passed 20,000. The original algorithm was not scalable so I re-implemented a more efficient one using database best-practices as well as a simple custom caching technique, resulting in greatly improved responsiveness.

Other tasks included introducing more AJAX-driven widgets to provide a smoother and more modern user experience, and building a custom keyword-based search engine with autocomplete.

Lastly, the site was built on Kohana while the admin backend was on a proprietary framework. After discussing the benefits of having both in a single modern framework, I ported both to Laravel MVC.

ONE DAY ON EARTH   **OCT '10 ~ APRIL '13**

http://archive.onedayonearth.org

One Day on Earth is an annual project founded by a Santa Monica-based filmmaker. Starting on October 10, 2010 (10/10/10), thousands of volunteers worldwide shot footage documenting life for that day. The "archive" uses google maps to allow viewers to browse and watch the videos by location, keywords, and categories.

My first task was to build the archive site itself, featuring a Google Maps UI with markers or clusters for videos, as well as an alternate grid-based view. The site was very much AJAX-driven to provide a smooth and interactive user-experience. Video features include a keyword-based search, comments, and user ratings. I also integrated APIs for Vimeo, where the videos were hosted, as well as the Ning Social Network where user profiles were kept.

As the video upload application needed an upgrade the following year (2011), I re-implemented using the Plupload Javascript plugin. Videos were uploaded to an AWS server, where a backend script then took over and uploaded to Vimeo while doing necessary database bookkeeping.

MOBOOM   **JULY '12 ~ AUG '13**

www.moboom.com

Moboom is a sophisticated platform for building mobile websites. I was brought on in mid-2012 to help with development of the backend, which uses PHP and the Yii MVC framework.

Among my tasks were implementing custom content import management using Elastic Search; developing a custom theme uploader, allowing users to design and publish their own themes; and coding the database schemas and back-end code for a REST-ful API supporting basic 'CRUD' operations (create, view, update, delete). The API was used for tasks such as managing individual sites, invoices, and user groups.

GRADUATION NATION   **SEPT '10 ~ MAR '12**

Graduation Nation is an e-commerce site which works with colleges nationwide to record graduation ceremonies for students and their families.

My initial work involved fixing critical issues demanding immediate attention with the existing live site. Afterwards, work included integrating a new DVD Fulfillment vendor (SOAP protocol), and transferring the site (code and database) to a new hosting server, with minimal downtime. shops in the vicinity of the campus. Local businesses can register an account and post Groupon-like offers to attract students to their business.

WORK EXPERIENCE

PAVIA SYSTEMS   **'08**

Web Development Engineer

Developed features for online education website for the construction industry using PHP and MySQL. Integrated Moodle CMS into the site for testing and questionnaire functionality.

OPEN INTERFACE   **'06 ~ '07**

Senior Embedded Engineer

Worked as embedded developer, coding Bluetooth Handsfree Profile in C and C++ with concurrent multiple channel capability.

PIXELWORKS   **'99 ~ '06**

Senior Embedded Engineer

I worked at Equator Technologies which was purchased by Pixelworks. Our main product was a media Processor system-on-chip that was used to run real-time media codecs such as MPEG-4 and H.263.

For most of my tenure I was the resident expert of a part of the chip known as the VLx, which was responsible for the variable length encoding and decoding of video compression data. Originally no compiler was available for this unit, so I created a library of assembly-code macros

for common functions needed by our customers. Later I worked with the compiler group to develop a suitable compiler for this very specific sub-processor.

Other tasks included integrating Digital Rights Management (DRM) library into a streaming set-top box product, and developing an embedded HTTP module to handle DRM license server transactions using GET and POST.

SGI   **'97 ~ '99**

ASIC Design Engineer, Advanced Graphics Division

During my two years at this amazing company, I designed and developed digital logic blocks implementing OpenGL geometry functions, including command parsing and managing rendering state.

EDUCATION

M.S., Electrical Engineering, University of Washington, Seattle, WA
M.S., Technical Japanese, University of Washington, Seattle, WA
B.A., physics, Wesleyan University, Middletown, CT