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SUMMARY

Experienced full-stack developer, I have a broad and deep understanding of the Open Web stack, Front-end and Server Techniques to build, deploy and maintain Web sites that scale.

- Polyglot programmer; JavaScript, PHP, TypeScript, Salt Stack, GNU Make, Python, Go, Ruby, Vagrant, Puppet
- Contributor to open-source projects such as Nuxt.js, Alpine Linux, MediaWiki (i.e. Wikipedia.com) and Mozilla Firefox Accounts (i.e. Firefox's profile sign-in system)
- Maintained Web Hosting architecture for high-visibility sites, including W3C's [WebPlatform.org](https://webplatform.github.io), and the [World Wide Web's 25th anniversary Site](https://www.w3.org/webat25/)
- Experience with Cloud IaaS, Containers, and maintenance of continuous deployment systems

EXPERIENCE

CGI Inc. – Senior Technical Consultant (Lead Front-End)

May 2017 - Present

At CGI, I work as a Technical Lead as part of the Global Technology Operations - Software Development Team. My role is to analyze and contribute to the development of a Cloud Management Platform named Unify360 at the User Interface level (e.g. Web, Email, Dashboard...), focussing on the aspects related to UI such as Internationalization (e.g. translation), Localization (e.g. Date, Number formatting) from how to read data from services, to assembling view patterns. Unify360 is composed by many "micro-services" where each component has a specific tasks. For example; Authentication, Session validation, Forms, Rendering Views, etc. Services can be written in Perl, PHP, .Net Core, ASP.Net/IIS, or Go. From time to time, I also contribute to packaging and continuous-delivery systems.

- Design and implement an HTML partial Microservice with PHP 7.2, Slim framework, Mustache PECL extension for a new section of Unify360 portal;
- Research and Technical Requirements Analysis for modernizing Unify360 UI layer. Made comparison between React, Angular, Vue.js and different UI Component Libraries such as Google Material Design, Element UI, Quasar;
- Implement prototype for a modern Unify360 Front-End using Vue.js, Nuxt.js, TypeScript, GraphQL, Koa.js and planned how to migrate all views into new platform effectively replacing code written in Perl and PHP 5.3, and also replacing HTML partial Microservice;
- Lead the team that work and coach for writing code with tests, making self-contained and re-usable packages

Colloquial / Betastream – Delivery Engineering Architect (remote)

January 2016 - May 2017

At Colloquial, my role was to introduce and coach the team Continuous Delivery and Code release, and deployment system. I was part of a geographically distributed Web Development and IT team ("Betastream") working on projects for Colloquial and other partner projects. My responsibilities were to review, plan, and build a next-generation infrastructure and deployment system for the project production pipeline.

SKILLS

Frameworks

Nuxt.js, Vue.js, Jest, Element UI, Rush.js, Koa.js, AVA, Backbone.js, Marionette.js, Symphony, Mocha, Jasmine, Babel, Rollup, Angular

Web Development Languages

TypeScript, JavaScript, ECMAScript, HTML/CSS, PHP

Programming

VCL, Bash, Python

Web Platform

HTML/CSS Architecture, Bundling, Transpilation, Deployment, Promises, Polyfills, Adaptive, Responsive

Web Operations

Configuration Management, Service Monitoring, Self-Healing event handlers, SaltStack, Node.js, Elasticsearch, Prometheus, Redis, Varnish, Docker Swarm, Dockerflow

EDUCATION

Udemy

Nuxt.js - Vue.js on Steroids
Understanding TypeScript

EggHead.io

Use Types Effectively in TypeScript

Up and Running with TypeScript
Get Started with Elasticsearch
Build a Server Rendered Vue.js App with Nuxt and Vuex

- Released a Cloud Orchestration solution using Salt Stack, running on Amazon AWS, Google Cloud Platform and Microsoft Azure, where we can manage automatically Web Applications, deployment levels, build steps and dependencies consistently;
- Introduced HashiCorp Vagrant workflow to automatically manage Web Developer's PHP setup using VirtualBox and Canonical Ubuntu Linux 16.04 LTS. By doing so, every developer got the same Web Server setup as in production;
- Introduced automated packaging for every WordPress projects, by leveraging Composer's archive feature. The automated build process would first pull all dependencies, run code-quality linters, and if successful, create a Zip archive. By merging on master on Bitbucket would generate an archive, and the continuous-delivery system make all web server nodes to download the archive, extract its contents in a folder. Deploying a release would be changing the "live" symbolic to the newly extracted package;
- Introduced advanced Varnish caching with Fastly. Created HashiCorp Vagrant workspace network (e.g. one Web Server VM, one Database server, one Varnish VM) to allow working on Varnish VCL caching scripts.

CAE – Delivery Engineering Architect

March 2016 - June 2016

At CAE, my role was to introduce and coach the team Continuous Delivery and Code release, and deployment system. I was working on-site as a part-time contract and been asked to analyze and document for recommending an Open-Source real-time monitoring solution. During that period, I compared Prometheus, Heka, Ganglia, Grafana, ElasticSearch Kibana, and other TimeSeries aggregation and visualization systems. The ideal system had to take into account the air-tight networking policies which included corporate TLS certificate, and deployment targets would often be inaccessible to the Internet.

- Introduced a method to maintain network of Virtual Machines with HashiCorp Vagrant leveraging VirtualBox private networking
- Created a "poor man" configuration management using Bash 4 as a way to avoid using text files.

Mozilla – Subject Matter Expert Compatibility Data Project (remote)

September 2015 - February 2016

At Mozilla, my role was to provide an oversight of the development and participate in software architecture discussions as a subject matter expert on the Mozilla Developer Network Compatibility Data project. The Compatibility Data are what feeds developer.mozilla.org documentation pages telling developers if the feature is supported in a given Web Browser. My involvement was around communicating with various stakeholders about the requirements and features for the system.

- Created a client-side DataTable rendering system with Vanilla JavaScript
- Prototyped a file-based Compatibility data storage

W3C/MIT – Developer Operations Engineer (i.e. "DevOps")

August 2013 - August 2015

At W3C, my role was to maintain stability, improve features, strengthen the infrastructure of the site, and act as a technical liaison with Open-source communities. The WebPlatform Docs project was meant to become an independent Web Developer documentation site maintained by an international community of contributors, sponsored by Adobe, Apple, DreamHost, Fastly,

VueMastery

Real World Vue.js

Mastering Vuex

Next-Level Vue

Scaling Vue with Nuxt.js

Advanced Components

Pearson Vue

Zend Certified Engineer PHP 5.3

July 2013

McGill University

CEEN-421-761 - English in Written

Communication Contexts

CMSC-000-781 - Foundations of Mathematics

CMSC-101-771 - College Algebra and Functions

December 2013

University of Montreal

Web Accessibility (WCAG 1) at

the Nazareth & Louis Braille

institute

July 2008

IBM

IBM WebSphere DataPower SOA

Appliance

July 2007

Canadian Armed Forces

Basic training at Royal Military

College Saint-Jean

Private (Basic), assigned to

Sherbrooke 714th

Communication Squadron

Wired and wireless

communication and information systems (Introductory training)

Winter warfare training

January 2000

Facebook, Google, Intel, Mozilla, Microsoft, Nokia, and Opera.

- Converted content and history from MediaWiki into Static site generators and Git (2015)
- Improved Infrastructure deployment code so that any service could be rebuilt systematically (2015)
- Implemented a self-healing monitoring (2015)
- Designed and Implemented Single Sign-On solution using OAuth2 (2014)
- Designed and built a Web Browser feature compatibility table system for documentation pages (2014)
- Migrated the infrastructure to different providers along with Operating-System upgrades (2013, 2015)

Ericsson – Web Developer

February 2012 - June 2013

The goal of the project at Ericsson was to create a server on demand provision portal managing cloud computing clusters hosted in data centers geographically dispersed. My role was to architect, build and lead a Web-based virtualization provisioning portal. A key feature I worked on was to allow users to initiate VMs from any data centers, on any cloud provider platforms.

Evocatio Solutions technologiques Inc. – Web Developer, Co-Founder

January 2010 - February 2012

As a Web Developer and Co-Founder, my role was to lead and architect all Web Development work related to the FrontEnd stack. I would be in touch with Graphic Designers and Project Managers to create Valid HTML/CSS markup that reflects the designs, and to work on all Web Browsers of the moment. My work would take Adobe Photoshop and PDFs document and create HTML/CSS Static style guides (minimal JavaScript, no backend) to create CSS pattern libraries. As a Co-Founder, I had the authority to validate and review code quality when using HTML/CSS patterns generated by the Web Back-end Stack (Symfony 1, Symfony 2, Zend Framework, ASP.NET).

- Participated in a major Web site rewrite for UDA.ca from .NET into PHP with Symfony1.x, responsible of two search-engine modules and HTML/CSS patterns libraries (2010-2012)
- Created complex e-mail delivery systems to handle bounces at the server level and participated in the creation of a Web-based frontend (2011)
- Created an early "Offline first" HTML5 news reader for iPad (2010)
- Participated in building and maintaining a major public-facing Web application that had been deployed in many cities around the globe (2010-2012)

Groupe Informatique TechSolCom Inc. – Web Developer

October 2006 - August 2009

My role was to maintain the company corporate image on the web, maintain their Web site, and participate in projects run internally as a Web developer.

- Contributed to many projects as Front-End Developer
- Participated in maintaining company internal network, testing DataPower blade, Virtualized servers on bare metal, and web hosting infrastructure
- Built a monitoring service using the SNMP protocol, centralized syslog server, and configured a Nagios monitoring service (2009)
- Participated in making many Web applications as a Front-End developer including an inventory Web Application and a Continuous Delivery system

PUBLICATIONS

- « *Techniques pour déployer WordPress de façon consistante et les résilients* », WordCamp Montréal 2016
Talk given at WordCamp Montréal 2016
- "*Packaging for easier redeployment*", DevOps Montréal
Presented at two events, DevOps Montréal, PHP Québec.
- Santachè, A. "*Mobile development using web technologies focusing on games*", ACM, ISBN 978-1-4503-2559-2
Participated in chapters related to "Markup architecture", "Events" and "Web Storage"
- Kumar, J. "*Apache Solr PHP Integration*", Pakt Publishing, ISBN 9781782164920
Book review
- « *Comment évaluer le niveau de qualité d'un site web selon les techniques d'intégration web d'actualité.* », Web à Québec 2013
Presented at two conferences; «Montreal WebIn», and «Web à Québec» (WAQ)