

Alexandre Gervais

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Spoken and written languages: French – English

Education

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|-------------|---|
| 2010 | Bachelor degree in software engineering
École de technologie supérieure (ÉTS)
Université du Québec, Montréal, Québec |
| 2006 | College diploma in computer science
Administrative data processing option
Cégep André-Laurendeau, LaSalle (Montréal), Québec |

Professional experience

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|-----------------------|---|
| 2012 - Present | Software Developer
Solutions Médias 360, Montréal, Québec <ul style="list-style-type: none">▪ Designed and implemented a scalable and redundant architecture of web services and APIs (REST, Spring, MySQL, Redis, Elasticsearch).▪ Infrastructure setup and maintenance, "devops" (Linux, Nginx, HAProxy, monitoring, security).▪ Created and evolved a web-based management tool (AngularJS, node.js).▪ Automated information retrieval and syndication with our industry partners (Java).▪ Built and maintained developer tools and environments (Vagrant, Puppet, CI, Git). |
| 2011 - 2012 | Intermediate Software Developer
iWeb Technologies, Montréal, Québec <ul style="list-style-type: none">▪ Developed a software architecture for the delivery of virtual machines in a cloud infrastructure (Agile, TDD).▪ Programmed REST and JMS web services (Spring, ActiveMQ, CXF).▪ Interfaced with billing and security APIs (REST).▪ Maintained, tested and migrated applications from legacy systems to new technologies (PHP, SOAP, Java). |

Professional experience (continued)

2009 - 2011 Software Developer

internship and
employment Motricity, Montréal, Québec

- Developed and programmed REST web services (Java, Tomcat, Spring, Jersey) for a content management and content delivery application for mobile devices.
- Developed and maintained a billing and payment platform by SMS (Java, SOAP, Diameter).
- Analyzed and modified existing data models (Oracle, MySQL, Hibernate).

Fall 2008 Semantic Intelligence Programmer

internship Nstein Technologies Inc., Montréal, Québec

- Created tools for text normalization in preparation for semantic analysis (Java).
- Developed and programmed JSON web services for the administration of a news aggregation portal (Java, Tomcat, MySQL, Hibernate).
- Analyzed and programmed a web portal prototype for syndication and visualization of web content (PHP, CSS, AJAX).
- Explored and tested the exportation of content on many widget platforms (UWA).

Summer 2007 IT Developer

internship Genetec Inc., Saint-Laurent (Montréal), Québec

- Analyzed and developed an ASP.Net / C# application allowing the creation and activation of demo licenses for several software products and versions.
- Customised, developed and integrated several tools for Microsoft Dynamics CRM (ASP.Net / C#).
- Programmed stored procedures, triggers and agents for SQL Server.
- Created and generated reports using SQL Server Reporting Services.

Personal projects

dareeo.com

Dareeo is a mobile application that gives and raises epic dares.

- Created the public API (node.js, OAuth, CouchDB, AWS).
- Mobile application development (Android).

Personal projects (continued)

misezsurlaglace.com

Misez sur la glace is a portal for my annual hockey pool.

- Web integration (node.js, Jade, Bootstrap).
- Infrastructure support (AWS).

Automatic music classification system

- Extraction of meaningful features of the audio signal of a musical piece for modeling.
- Statistical analysis of a music collection and genre classification of audio parts by machine learning.

Technologies, languages and software

Programming languages:	Java, Javascript (node.js), PHP
Internet, web applications:	Nginx, Apache, Tomcat, Spring, JAX-*, REST, SOAP, JMS
Database:	MongoDB, CouchDB, Redis, Elasticsearch, SQL, Hibernate
Operating systems and tools:	Windows, Linux, AWS, Git, Vagrant, Puppet, Jenkins, IntelliJ
Methodologies:	Agile Scrum, TDD, Continuous Integration

Interests

- Data structures
- Artificial intelligence, expert systems
- Machine learning and data mining