

Alexandre Gervais

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Spoken and written languages: French – English

Professional experience

2012 - Present Software Developer

Solutions Médias 360, Montréal, Québec

- Designed and implemented a scalable and redundant architecture of web services and APIs (Java, JAXRS, MySQL, Redis, ElasticSearch).
- Infrastructure setup and maintenance, "devops" (AWS, 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, Spring).
- Built and maintained developer tools and environments (Vagrant, CI, Git).

2011 - 2012 Intermediate Software Developer

iWeb Technologies, Montréal, Québec

- 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).

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).

Professional experience (continued)

Fall 2008
internship **Semantic Intelligence Programmer**
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).

Education

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

Personal projects

dareeo.com

Dareeo is a mobile application that challenges your friends.

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

misezsurlaglace.com

Misez sur la glace is a portal for the annual family 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, Jenkins, Bamboo, IntelliJ
Methodologies:	Agile Scrum, TDD, Continuous Integration

Interests

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