

# Alexandre Gervais

SOFTWARE ENGINEER · (FULL STACK DEVOPS)

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## Experience

### AppDirect

Montréal, Québec

SENIOR SOFTWARE DEVELOPER (DEVOPS)

2015 - PRESENT

- Application management infrastructure setup and maintenance (Kubernetes, Docker, Terraform, CentOS7, Packer, AWS).
- Automated the continuous integration and continuous deployment pipelines of applications (Github, Jenkins-dsl, Kubernetes).
- Conceived, developed and maintained a self-service development environment provisioning web application (node.js, AngularJS, Terraform, AWS).
- Support quality assurance practices by automating and centralizing end-to-end integration testing (AngularJS, Docker-compose, Jenkins).

### Solutions Médias 360

Montréal, Québec

SOFTWARE DEVELOPER

2012 - 2015

- 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).

### iWeb Technologies

Montréal, Québec

INTERMEDIATE SOFTWARE DEVELOPER

2011 - 2012

- 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).

### Motricity

Montréal, Québec

SOFTWARE DEVELOPER

2009 - 2011, internship and employment

- 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).

## Education

### École de technologie supérieure (ÉTS)

Montréal, Québec

BACHELOR DEGREE IN SOFTWARE ENGINEERING (B.ING.)

2010

- 3.77 / 4.30 GPA

### Cégep André-Laurendeau

LaSalle (Montréal), Québec

COLLEGE DIPLOMA IN COMPUTER SCIENCE

2006

- Administrative data processing option

## Presentations & Talks

### USER GROUPS

Oct. 2016 **HA Kubernetes Deployment**, Meetup #2 - User stories, Kubernetes-Montréal

Montréal, Québec

# Personal projects ---

## **misezsurlaglace.com**

Misez sur la glace IS A PORTAL FOR THE ANNUAL FAMILY HOCKEY POOL.

2013 - PRESENT

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

## **dareeo.com**

Dareeo IS A MOBILE APPLICATION THAT CHALLENGES YOUR FRIENDS.

2014

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

## **Automatic music classification system**

2010

- 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 ---

<b>Operating systems and tools</b>	OS X, Linux, AWS, Git, Kubernetes, Docker, Terraform, Packer, Jenkins, IntelliJ, New Relic, Datadog
<b>Programming languages</b>	Javascript (node.js), Java, Groovy, Bash, Python, Go
<b>Internet, web applications</b>	Nginx, HAProxy, Apache, Tomcat, Consul, Spring, REST, SOAP
<b>Database</b>	CouchDB, Redis, ElasticSearch, SQL
<b>Methodologies</b>	Agile Scrum, TDD, CI/CD