

# Alexandre DuBreuil

## Software Developer

Paris, France – Montreal, Canada

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## Summary

Software developer with 10 years of experience, as a freelancer, technical lead, and architect. Experience in full stack web development, DevOps, software factory automation, and application security. Also book author, open source maintainer, conference speaker, and trainer for web developers.

*Languages:* Java, Python, JavaScript

*DevOps:* git, Maven, Ansible, Jenkins, Docker

*Culture:* Linux, Open Source, Continuous Delivery, DevOps

*Security:* Threat modeling, Hashicorp Vault

*Methodology:* Kanban, Agile

## Experience

### Web Development Trainer

(January 2020 - May 2020) 4 months

DuBreuil Consulting (Simplon.co)

Paris, France

Trainer on web languages and technologies for full stack web developers (see recorded classes).

*Technologies:* Java, JavaScript, Spring Boot, Angular, UML, TDD

### Generative Music Composer

(July 2018 - December 2018) 6 months

DuBreuil Consulting (DreamBank)

Paris, France

Composer of generative music, for the DreamBank art exhibit of Claire Malrieux, using machine learning and Magenta (see technical content).

*Technologies:* Python, Magenta, Tensorflow, Ableton Live, Machine Learning, Generative Music

### Security Consultant

(April 2018 - June 2018) 3 months

DuBreuil Consulting (LesFurets)

Paris, France

Security architecture on secrets management with Hashicorp Vault for passwords (see technical content).

*Technologies:* Java, Bash, Ansible, Hashicorp Vault

### Software Architect

(June 2016 - October 2018) 2.5 years

LesFurets.com

Paris, France

Software architect on a 500,000 lines web application, working on full stack refactoring, domain driven design, infrastructure automation, software factory, continuous delivery and devops tooling.

- Refactoring of the legacy insurance product domain

- model code and the insurance validation rules in dOOv.
- Modernizing of the infrastructure automation with Ansible and Docker.

*Technologies:* Java, Docker, Ansible, Hashicorp Vault

*Culture:* Domain Driven Design, DevOps, TDD

### Technical Lead

(January 2014 - June 2016) 2.5 years

LesFurets.com

Paris, France

Technical leader of an Agile team of 5 developers responsible for the 60 web services communicating with the insurers, providing agile management, mentoring, architecture design, software development and software craftsmanship.

- Team management on the Kanban methodology, with visual management, daily stand ups, weekly One-on-One with team members.

- Team mentoring on code review and code quality, as well as pair programming.
- Development and architecture of services in Java, as REST and WSDL web services.
- Continuous delivery with Jenkins and Maven.

*Technologies:* Java, Maven, Jenkins, REST, WSDL

*Culture:* Kanban, Visual management, Daily stand-ups, One-on-One

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### Java EE Consultant

(January 2010 - August 2013) 3.5 years

#### CGI France

Paris, France

Java EE consultant on a large scale front office and back office Java application in the energy business (3,000,000 lines of code). Development, testing, delivery, training and documentation.

- Development of front-end in JSP, backend in Java and data layer in SQL.
- Development of multi-threaded algorithms, handling large datasets (1,000+ curves, millions of points) efficiently, for the energy market on price optimisation and energy curve manipulation.

- Development of a JavaScript curve visualisation component used to visualise energy curves and apply operations on them.

*Technologies:* Java EE, JSP, Maven, SQL, JavaScript, jQuery, jqPlot

## Publications & Conferences

### Hands-On Music Generation with Magenta

(June 2019 - January 2020) 8 months

Book published on Packt Publishing. Explore the role of deep learning in music generation and assisted music composition.

*Tags:* Python, Magenta, Tensorflow, Machine Learning, Generative Music, Ableton Live

### Music Generation with Magenta: Using Machine Learning in Arts

Conference on leveraging machine learning technologies for music generation using Magenta.

*Conferences:* Devovx Belgium 2019, IRCAM Paris 2020

*Tags:* Python, Magenta, Tensorflow, Machine Learning, Generative Music, Ableton Live

### Hashicorp Vault and Continuous Delivery

Conference on securing your application secrets with infrastructure automation, continuous delivery and Hashicorp Vault.

*Conferences:* Devovx UK 2020, Devovx France 2019, JUG Nantes 2019

*Tags:* Hashicorp Vault, Continuous Delivery, DevOps

### Domain Object Oriented Validation (dOOv)

Conference on dOOv, a fluent API for type-safe domain model validation and mapping (see Project – Domain Object Oriented Validation).

*Conferences:* JDK IO Copenhagen 2018, Snowcamp 2018, Softshake Geneva 2017

*Tags:* dOOv, Java, Domain Driven Design

### Apache Spark for Java Developers

Conference on using Apache Spark with Java.

*Conferences:* Softshake Geneva 2017, Devovx Krakow 2017, Breizhcamp Rennes 2017, Snowcamp Grenoble 2017

*Tags:* Java, Apache Spark, Big Data

### Continuous Merge with git-octopus

Conference on shipping code to production everyday in a feature branching environment with git-octopus.

*Conferences:* Open RDay Paris 2017, JUG Marseille 2016, JUG Tours 2016, AgileTour Rennes 2014

*Tags:* git, DevOps, Continuous delivery

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## Projects

### IntelliJ Save Action Plugin ★382

(January 2015 - today) 5 years

Creator and maintainer of an IntelliJ plugin that adds save actions to the IDE. Five stars rating on the JetBrains plugin website and 75,000 unique downloads per version. *Tags:* Java, IntelliJ

### Domain Object Oriented Validation (dOOv) ★50

(September 2017 - September 2019) 2 years

Creator, maintainer and evangelist on dOOv, a fluent API for type-safe bean validation and mapping. *Tags:* Java, Domain Driven Design

### Project git-octopus ★193

(November 2014 - June 2017) 3.5 years

Evangelist and committer on git-octopus, a tool enabling the continuous merge workflow. *Tags:* git

## Education

### Pierre and Marie Curie University (Paris VI)

(September 2009 - January 2010) 4 months

Computer Science Master - International exchange - CREPUQ

Paris, France

International exchange student from University of Montreal.

### University of Montreal

(September 2007 - January 2011) 4 years

Computer Science Baccalaureate

Montreal, Quebec

Program with 1 semester of international exchange and 3 internships of 4 months

- CGI Paris internship – Java backend development (see experience).
- CGI Montreal internship – Java full stack web development with **Hibernate** for an internal application.
- CHUM Montreal internship – Java full stack web development for an internal application.

### Jean-de-Brebeuf College

(September 2005 - June 2007) 2 years

DEC in science, letters and arts

Montreal, Quebec

## Interests

Big music geek, listen at alexandredubreuil.com/music, also

**Sports** cycling, squash, climbing

**Geek** mechanical keyboards, gaming, vim

**Music** modular synthesizer, music production, DJ