

# ANDROID / JAVA TECHNICAL LEAD

## BACK END | FRONT END

### +12 YEARS EXPERIENCE

#### **GONCALVES Philippe**

Tel : +1-514-632-6816

Email : [philippe.goncalves@gmail.com](mailto:philippe.goncalves@gmail.com)

Website : <http://www.philippegoncalves.com>

Montréal  
Canada

## WORK EXPERIENCES

### **Android / Java Technical Lead**

Company : **Summit Tech (Montréal)**

Date : **August 2015 - Present**

- Android / Java technical lead on RCS applications development
- Architecture and development of the Summit Android SDK/APIs allowing customers to easily develop and integrate RCS features within their Android apps and AOSP source code
- Development of the RCS messaging and UCE (User Capabilities) modules integrated directly within the Android native databases/providers for a seamless integration into AOSP (Android L-M-N-O / Qualcomm APIs / Google UCE)
- Extensive knowledge of AOSP integration and development (Android private APIs, Qualcomm APIs, system permissions, dynamic libraries) for multiple customers (Motorola, Kyocera, ZTE, Lenovo, Verizon, ATT, TMobile) - natively and externally (gradle)
- Architecture and development on the Summit RCS Android base application, with multi modules philosophy allowing to build multi facets apps with one unique codebase.
- Complete projects refactoring to gradle philosophy with multi dimensional flavors and modules decoupling
- Complete refont of the in-house development tools (ADT to gradle, Eclipse to Android Studio), build server (Jenkins) pipeline and jobs, svn to git migration
- Development and improvements on existing standalone RCS applications for different customers (ZTE, Lenovo, Verizon, ATT, Bell, MTS, O2)
- Gradle optimization allowing to load and build only needed flavor and modules + dependency injection at compile time
- Custom gradle tasks and plugins (fat jar style packaging, logging annotations, multi-flavor module artifact publishing in artifactory)
- Project manager for different customers (meetings, technical estimations, pro-active approach, customer onsite support)
- Troubleshooting on the C++ native layer
- Development of an IntelliJ plugin for sharing snippets on gitlab
- Technical support for the development team
- Useful links and main projects:
  - ATT NumberSync (app development + Sdk for ZTE and Lenovo):  
<https://www.att.com/shop/wireless/features/numbersync.html>
  - RCS messaging + UCE Sdk for Motorola on TMobile and ATT
  - UCE Sdk for Kyocera on ATT

#### **Technical environment :**

Java Android Kotlin Room C++ Gradle JNI Jenkins Artifactory Git Android Studio Eclipse AOSP Qualcomm APIs

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### **Android Lead Software Developer**

Company : **hybris software, an SAP company (Montréal)**

Date : **June 2013 - July 2015**

- Android lead software developer for the R&D mobile department team
  - Architecture and development of a commerce mobile SDK for the eCommerce domain
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- Development of an extendable and configurable generic commerce library responsible for managing eCommerce data (REST, OAUTH, offline data and sync, ...)
  - Development of an Http client library with automatic Raw data conversion
  - Development of a UI library with custom UI components (swipeable list, alert notification, etc.)
  - Development of location library with map wrappers and geofencing capabilities
  - Development of a barcode recognition system (based on Scandit and ZXing) able to identify different scenarios (products, orders, locations, etc.)
  - Development of a B2B and B2C application showcasing the use of the SDK
  - Uses of extendability and flavor patterns to share common flows and features
  - SDK and applications fully compatible with Android Studio (Gradle) and Eclipse (ADT)
  - General improvements and refactoring (Rest API, modular code, etc.) on an existing generic B2C application
  - Set up and automated tests with calabash-android
  - Set up for continuous build integration with Jenkins, Bamboo and HockeyApp
  - Release manager and security auditor
  - Work in a agile scrum environment
  - Useful links:
    - o My presentation of the mobile SDK at the hybris partner summit in 2015:  
<https://drive.google.com/open?id=1kj6rQuG32b6clvgawruNh932I9hGZ1i->
    - o [https://www.hybris.com/medias/sys\\_master/formsCollaterals/formsCollaterals/h8e/h03/8808343732254/Datasheet-hybris-Mobile-EN.pdf](https://www.hybris.com/medias/sys_master/formsCollaterals/formsCollaterals/h8e/h03/8808343732254/Datasheet-hybris-Mobile-EN.pdf)

**Technical environment :**

Android Gradle Bamboo Jenkins Calabash-android Git Google Maps API Android Studio Eclipse

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**Off work**

Date : **November 2012 - April 2013**

Travel around North America and Central America

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**Android / Java JEE Software Developer**

Company : **Desjardins (Montréal)**

Date : **February - November 2012**

- Java Android (5 months) / Java JEE (4 months) consultant for the bank of Desjardins
- Complete refactoring of the official Desjardins application already available at this time
- Improvements on the native/web hybrid concept in order to maintain the application easily
- Development of a module to update the UI and functionalities automatically by exchanging data in Json with the Web
- Development of the Ant script for automatic deliveries
- Continuous build integration with Jenkins
- Improvements and development of the new mobile website AccesD
- App: <https://play.google.com/store/apps/details?id=com.desjardins.mobile>

**Technical environment :**

Android Java JEE Struts Ant Json Jackson Jenkins HTML5 JQuery Mobile CVS

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**Java JEE Software Developer**

Company : **freedomone mobile (Montréal)**

Date : **February 2011 - February 2012**

- Prototyping and development on the freedomone™ platform (BI for mobile)
  - Development of a multi-protocol client interface based on REST, SOAP and JMS
  - Improvements and development on the workflow engine based on Drools
  - Design and development of drools workflows and workitems (Business services)
  - Improvements and development on the correlation engine that aims to recognize and correlate incoming requests
  - Development and design of a Smart Notification Center capable of communicating with Mobiles, IP Devices and Emails, managed by a full Ajax monitoring console
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- Development and design of multiples demos and proof of concepts
  - Development of a geolocation module based on Google Maps & Bing Maps API
  - Web development for mobile (jQuery Mobile) & desktop browsers
  - Startup working environment on an innovative product

**Technical environment :**

Java JEE EJB3 Spring JMS REST SOAP DB2 SQL JPA Drools JQuery HTML5 Json Jackson JQuery Mobile CSS  
JSP Servlet Javascript Eclipse SVN XML SAX DOM Websphere Google Maps API AJAX Bing Maps API Maven

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## **Java JEE Software Developer (Jive)**

Company : **The Community for Excellence in Health Governance (McGill affiliated) (Montréal)**

Date : **November 2010 – February 2011**

- Java consultant for an organization committed to excellence in the governance of Canada's health and healthcare organizations
- Architecture, design and development of plugins for the Jive Engage Platform (Community and collaboration software) of the organization
- Development of an eBoardroom functionality, allowing the users to have their own space to manage meeting events with agendas (documents support, template supports, etc.), documents, meeting packages, etc.
- Detailed functional specifications drafting
- Setting up the test cases
- Full autonomy

**Technical environment :**

Java JEE Freemarker XHTML CSS AJAX Javascript JQuery Struts Json Spring Eclipse Maven PostgreSQL SQL  
SVN Jive

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## **Java JEE Software Developer**

Company : **SHAM (Lyon, France)**

Date : **August 2008 – August 2010**

- Technical expert on a contract management application for the business hospitals insurance
- Complete development during one year on a major software evolution (rethinking of the whole system billing, etc.)
- Development of the EJB project for online subscriptions
- Database design, triggers and stored procedures development
- Set up of automatic application deliveries (Ant)
- Corrective (production) and scalable support
- Detailed functional specifications drafting
- Support to users (production) and Java developers
- Full autonomy

**Technical environment :**

Java JEE EJB3 JSP XHTML CSS AJAX Javascript Struts Hibernate Eclipse Ant Oracle SQL PL/SQL XML SVN  
AspectJ Jboss WordML Adobe Livecycle

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## **Contracting owner assistant**

Company : **SNCF - Communication Department (Lyon)**

Date : **May – June 2008**

- Contracting owner assistant for the drafting of a project specification for the establishment of a common platform for sending SMS / MMS
  - Technical information consolidation of the existing applications at SNCF
  - Proposal of technical and functional solutions for the common platform
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## **PHP Software Developer, Contracting owner assistant**

Company : **SNCF - Communication Department (Lyon)**

Date : **June 2007 – April 2008**

- In charge of an Intranet application for SNCF
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- Customer relationship management
  - Workload estimate
  - Proposition of solutions for customers requests
  - Design and development (PHP/Ajax/MySQL) on the existing application
  - Users training for many Web and Intranet applications
  - Photoshop Web design
  - Design and development of a collaborative workspace

**Technical environment :**

PHP XHTML CSS AJAX Javascript YahooUI Eclipse Tomcat MySQL Photoshop JSON Joomla Mercury Quality Center Google Maps API

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## PHP Software Developer

Company : **SNCF - Communication Department (Lyon)**

Date : **May - June 2007**

- Development of a back office for a decision support application for road traffic management in Rhone Alps region
- Realization by a fully Web 2.0 approach, with mass use of DOM, Ajax and Javascript (YahooUI library)
- Compliance with W3C standards for better accessibility
- Job layer done in PHP
- Full autonomy

**Technical environment :**

PHP XHTML CSS AJAX Javascript SQL YahooUI Scriptaculous Eclipse Tomcat MySQL JSON CVS

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## Java JEE Software Developer

Company : **EDF (Chinon, France)**

Date : **October 2006 - April 2007**

- Participation from A to Z on the design and development for a nuclear supervising application
- Detailed functional specifications, document design and user documentation drafting
- Visits to the customer, meetings
- Database design
- JEE/Struts/Spring/Hibernate/AJAX/Oracle/PLSQL development
- Design and development of the modules for the interface with Octave (Mathematics module), JFreeChart (graphics generation) and JasperReport (interactive reports generation)
- Unit and validation tests, deployment on Weblogic server

**Technical environment :**

Java JEE JSP XHTML CSS AJAX Javascript Struts Spring Hibernate JFreeChart JasperReport Eclipse Weblogic Tomcat Oracle SQL PL/SQL AjaxTags XML CVS

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## Personal Android projects

### RECT

<https://play.google.com/store/apps/details?id=com.philippegoncalves.rect.android&hl=en>

Wanted to learn a bit more about the logic behind game development area

## INTERNSHIPS

### Java JEE Software Developer (End of Master studies training)

Company : **Logica (Lyon)**

Date : **July - September 2006**

Design, JEE/Struts/Spring/Hibernate/AJAX development and detailed functional specifications drafting on an application for the release of lots (drugs) for the pharmaceutical sector.

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**.NET Software Developer (End of Master studies training)**

Company : **Laboratory of computer science of UQAM (Montréal, Canada)**

Date : **May - June 2006**

Research, design and .NET development on an application for networks configuration.

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**ASP Developer**

Company : **DreamCentury Entertainment (Paris)**

Date : **June - August 2004 & June - August 2005**

Web developer in ASP/SQL Server/Java & Flash.

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**Web Developer (End of DUT studies training)**

Company : **CEA (Atomic Energy Commission) (CEA) (Paris)**

Date : **April - June 2003**

Design of an intranet with the Publigen tool and development of a tool in ASP/Access to manage documents.

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## SKILLS AND TECHNICAL KNOW HOW

Android AOSP Java JNI JEE Groovy Kotlin JPA Hibernate Struts Spring EJB3 JMS  
REST SOAP SQL PL/SQL Transact-SQL HTML JSP Freemarker Javascript AJAX  
JSON CSS JQuery XML SAX DOM Drools MySQL Oracle PostgreSQL DB2 SQL Server  
Ant Maven Gradle Jboss Websphere Weblogic Tomcat Eclipse Jive CVS SVN GIT  
Bamboo Jenkins Facebook SDK Google Maps API Bing Maps API

## STUDIES

2006 - **MASTER Informatique spécialité MIAGE at Paris XI University (Paris)**

Equivalence: **Master's degree in IT**

(Last year done in exchange at UQAM, Montréal, Canada)

2003 - **DUT Informatique at Paris XI University (Paris)**

Equivalence: **Associate's Degree in IT**

## LANGUAGES

French : Native speaker

Portuguese : Fluent

English : Intermediate advanced

Spanish : Average