

Simon DA SILVA \ PhD, Engineer

📍 Calgary, AB, Canada 🇨🇦 • 🏠 French citizen 🇫🇷
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— TECHNICAL PROJECT MANAGER, OTT STREAMING SPECIALIST —

EXPERIENCE

Technical Project Manager - Witbe, Calgary, AB, Canada 🇨🇦 since 01 / 2021

I have been managing several technical projects for major english-speaking Canadian telco and media stakeholders

R&D Engineer - Quanteec, Bordeaux 10 / 2020 – 01 / 2021

I technically lead several projects, such as:

- WebRTC peer-to-peer communications encryption in Quanteec OTT video streaming solution
- Webservice development to stream live video content to multiple platforms simultaneously

PhD in Computer Science - Univ. Bordeaux, CNRS, LaBRI 10 / 2017 – 09 / 2020

I designed, developed and implemented two pragmatic solutions:

- PRIVATUBE, a privacy-preserving edge-assisted secure OTT video streaming system
- PProx, a platform providing anonymous recommendations to streaming platforms users

Graduate Teaching Assistant - Bordeaux INP 10 / 2017 – 09 / 2020

I taught various modules: Cloud computing (*Docker*); Multimedia; Network programming (*C*, *Sockets*, *TCP/IP*); Web services

Research Engineer (internship) - Univ. Bordeaux, CNRS, LaBRI 02 / 2017 – 08 / 2017

I designed and developed MUSLIN, a dynamic server provisioning and live OTT video streaming system

R&D Engineer (internship) - Victoria University, Melbourne, VIC, Australia 🇦🇺 06 / 2016 – 09 / 2016

I implemented an image recognition algorithm in two mobile applications (Android and iOS) for a major Australian company

Engineer (internship) - Orange, UIMP, Toulouse 07 / 2015 – 08 / 2015

EDUCATION

PhD in Computer Science - Univ. Bordeaux, CNRS, LaBRI 2020

Thesis: High-QoE Privacy-Preserving Video Streaming

MSc in Telecommunications Engineering - ENSEIRB-MATMECA, Bordeaux INP - *With Honors* 2017

Software Engineering for Computer Science and Networks - *1st/56*

Science Baccalauréat (Math major), Higher School Preparatory Classes - Toulouse 2012, 2014

SKILLS

Communication: I published 7 articles, taught trainings and classes, and performed multiple conference talks

Project management: I have been managing several technical projects and coordinated a research project

Technical: OTT, DASH, WebRTC, Docker, C/C++, NodeJS, Python, Java, JavaScript, WEB, OAuth2, TEE

LANGUAGES

🇬🇧 **English:** Fluent - *TOEIC 990/990 - IELTS 8/9*

🇪🇸 **Spanish:** Professional proficiency

🇫🇷 **French:** Native speaker

🇵🇹 **Portuguese:** Good proficiency

HOBBIES

Association - I had been elected as the AFoDIB president, Bordeaux CS PhD students association 2017 – 2019

Involvement - I was an elected PhD students representative at the Maths-CS doctoral school 2017 – 2020

Music - I am a music producer (electro) and regularly mix; I have attended the academy for 9 years (guitar)

Sport - Table tennis (6 years in sports club), Laser Tag, Escape Game, climbing, ski, hiking

Travel - I love travelling and discovering new cultures (25 visited countries); I have lived in Australia and Canada

PUBLICATIONS

PhD thesis

[UB20] S. Da Silva. **High-QoE Privacy-Preserving Video Streaming**. *Univ. Bordeaux, CNRS, LaBRI, 2020*.

PRIVATUBE

[MW19] S. Da Silva, S. Ben Mokhtar, S. Contiu, D. Négru, L. Réveillère, E. Rivière.

PRIVATUBE: Privacy-Preserving Edge-Assisted Video Streaming.

20th International Middleware Conference (Middleware '19).

[MW18DS] S. Da Silva.

PRIVA-STREAM: Private Collaborative Live Streaming.

19th International Middleware Conference Doctoral Symposium (Middleware '18).

[MW18poster] S. Da Silva.

PRIVA-STREAM: Private Collaborative Streaming.

19th International Middleware Conference Poster (Middleware '18).

PProx

[MW19] G. Rosinosky, S. Da Silva, S. Ben Mokhtar, D. Négru, L. Réveillère, E. Rivière.

PProx: Efficient Privacy for Recommendation-as-a-Service.

22nd International Middleware Conference (Middleware '21).

MUSLIN

[IJNM19] S. Da Silva, J. Bruneau-Queyreix, M. Lacaud, D. Négru, L. Réveillère.

MUSLIN: A QoE-Aware CDN Resources Provisioning and Advertising System for Cost-Efficient Multi-Source Live Streaming.

International Journal of Network Management (IJNM '19).

[PV18] S. Da Silva, J. Bruneau-Queyreix, M. Lacaud, D. Négru, L. Réveillère.

MUSLIN: Achieving High, Fairly Shared QoE Through Multi-Source Live Streaming.

Packet Video Workshop (PV '18).

[MMSys18] S. Da Silva, J. Bruneau-Queyreix, M. Lacaud, D. Négru, L. Réveillère.

MUSLIN demo: High QoE Fair Multi-Source Live Streaming.

ACM Multimedia Systems Conference (MMSys '18).

AWARDS

[EDMI19] - **Best poster award - 2nd place** - EDMI day 2019 04 / 2019

[MMSys18] - **DASH-IF Excellence in DASH Award - 3rd place** - MMSys '18 06 / 2018

[MMSys18] - **Student Travel Grant Award** - MMSys '18 06 / 2018

[EDMI18] - **Best poster award - 2nd place** - EDMI day 2018 03 / 2018

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