

# JONATHAN VANDAMME

FULL-STACK JAVASCRIPT DEVELOPER

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Santander, Spain

Autonomous, dynamic and dedicated professional with a passion for software engineering. I am a Canadian and French citizen looking for new professional challenges in order to pursue my career in Europe.

## WORK EXPERIENCE

### CGI - Consultant for WADA - World Anti Doping Agency, Canada (2017 - 2019)

*Full-Stack TypeScript and Angular Developer*

- Responsible for the scaffolding and architecture of an Angular application
  - Implementation of centralized state management with Redux (NGRX)
  - Internationalization support
  - Development of reusable Angular components
- REST API development with NodeJS, Express and TypeScript
  - API documentation with Swagger UI
  - REST API testing with JavaScript, Mocha and Chai
- JAVA Backend development
- Backend and Front-end deployment on production servers
- Oracle database maintenance

### Sherbrooke University, Canada (2015 - 2017)

*Research Fellow - Inolivent Laboratory*

Development of a medical device to ensure reliable total liquid ventilation.

- Design and implementation of an embedded control system in accordance with the medical standards (IEC 13485, IEC 62304, IEC 60601)
  - Distributed, safety-critical hardware/software system in C++
  - Touch screen user interface in C++/OpenGL
  - Custom printed circuit boards with ARM controllers
- Produce the required engineering documentation
- Plan and coordinate the subsystems integration
- Produce and maintain a budget of the project

## ADDITIONAL EXPERIENCE

### Sherbrooke University, Canada (Sept. - Dec. 2010 & May - Aug. 2011)

*Internship - Research Fellow*

Design and implement a modern graphical user interface for a liquid ventilator using WPF (C#/XAML)

### CAE, Montreal, Canada (May - Aug. 2009 & Jan. - Apr 2010)

*Internship - Software developer*

Flight simulator and tools development for the military and cockpit development departments, using C++ and Python

## MASTER THESIS

Non-invasive online monitoring of respiratory mechanics during total liquid ventilation

## PERSONAL PROJECTS

### GoTurtle - React-Native/Firebase mobile application for distance tracking (2018)

Create teams and track your distance in real-time, available on Google PlayStore

### Hop - A global illumination renderer in C++ (2017)

A multithreaded Monte-Carlo path-tracer with Lua scripting for photorealistic rendering

### YAK - A multiprocessor 64-bit kernel (2015)

Boots from a FAT32 USB stick and supports a high resolution terminal

## EDUCATION

### Sherbrooke University (2015)

*Master thesis in Mechanical Engineering*

### Sherbrooke University (2011)

*Mechanical engineering degree with a specialization in aeronautics.*

### Ultimate Courses (2018)

*Angular/TypeScript certification*

## LANGUAGES

- French - native
- English - fluent
- Spanish - intermediate
- German - basics

## SKILLS

- JavaScript/TypeScript
- Angular2+
- React/React-Native
- NodeJS, Express
- Firebase
- REST APIs, GraphQL
- MongoDB, RethinkDB
- SQL
- C/C++
- Linux and UNIX tools
- GIT

## DISTINCTIONS

Co-author of 7 scientific publications

Lecturer in international conferences

5 graduate scholarships

3 Academic excellence awards

## OTHER INTERESTS

- Learning Haskell
- Functional patterns in JS
- Rock climbing & outdoors
- Traditional archery
- Flint knapping

References upon request