

Jonathan D. Fok kan

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🌐 <https://github.com/jonfk> • in <https://ca.linkedin.com/in/jonfk>

SKILLS

Languages: French, English and (Mauritian) Créole

Core Technical & Creative Skills

Languages: Rust, Java, Elm, Scala, Go, C#, Python, Javascript, shell, HTML/CSS, SQL, C, L^AT_EX, SML

Tools: Git, IntelliJ, Emacs, Eclipse, Vim

Paradigms: Object Oriented, Functional, Declarative, Imperative, Functional Reactive (FRP)

Design: UML, ER Model

EDUCATION

- **McGill University**

B.Sc Hon Software Engineering

Montréal, QC

January 2011 – 2014

WORK EXPERIENCE

- **AppDirect**

Senior Software Developer

Montréal, QC

August 2016 – Current

Technologies used: Java/Spring, Kubernetes, SQL, Javascript, RabbitMQ

- AppDirect is a SaaS company powering digital transactions for large enterprise software companies
- Rewrote a large legacy integration to Microsoft CSP program into a SpringBoot Micro Service leading to significant reduced support cost and quicker feature implementation
- Lead the implementation in collaboration with Microsoft of a secure Multi Tenant Authorization scheme

- **OMSignal Inc.**

Full Stack Software Developer

Montréal, QC

March 2015 – August 2016

Technologies used: Scala/Akka, ObjectiveC/Swift, Go, Javascript/React, D3.js, Docker, Kafka, MongoDB

- OMSignal is a wearable tech company with an ios app that tracks the user's biometric signals
- Lead the design and implementation of new data processing pipeline which lead to improved processing times of 90%
- Led the implementation of Key Performance Indicators based on the data from our backend to gain insight into features improving user retention
- Devised and implemented complex integration of an ios app and backend to third party services such as Strava, Nike+ and UnderArmour

- **Inocybe Technologies Inc.**

Software Developer

Montréal, QC

May 2014 – March 2015

Technologies used: Docker, Go, Scala/Akka/Play framework, Java/OSGi, Javascript/AngularJS

- Led the implementation of a custom build linux distribution based on CoreOS to run as an SDN controller appliance
- Implemented an update manager in Go based on Google's Omaha protocol for our integrated software product
- Designed and implemented a Continuous Integration pipeline
 - * Using Docker for isolating build environments
 - * CI pipeline ran on a small cluster using GoCD
- Created a project explorer for the Opendaylight project showing the karaf features and dependencies of modules in a complex project

- **Business Process Management Education Network**

Research Intern

University of Coimbra, Portugal

Summer 2012

- Research project investigating the performance of at the time popular distributed databases for Data Warehousing use cases
- Wrote benchmarks to compare hadoop+hive, MySQL cluster and VoltDB
- Extended an inhouse framework for a distributed database based on MySQL
- Set up and maintained a cluster of about 10 linux machines for our work

ACTIVITIES & INTERESTS

Member of IEEE, McGill Branch (2011 – Present)

Powerlifting (Member of Québec Powerlifting Federation) & Cycling

Photography
