

Curriculum Vitae | Nacer DERGAL

Personal

Contact & Social

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Whoami	Location	Phone 
Nacer DERGAL -  08/26/1993	 Quebec, QC 	 +33(0)7 81 25 18 44

Professional Experience

Software Developer

 From: 09/2018 until Present

 EXFO - Onsite at Quebec, Canada 

Description



- Work in a SCRUM environment
- Software development in C# on a Linux based embedded system using the Mono Framework
- Software development in .NET Compact Framework.
- Conception of a Test API using Graph Theory to be easily able to go through each path/scenario of an application with automated tests.
- Conception of an Image Recognition framework combined with the Test API to test our GUI.
- Conception of a driver for an Optical Channel Monitor.
- Design and conception of an Android-like Notification service in C#.

System integration/ DevOps engineer co-worker

 From: 09/2015 until 09/2018

 IGN - Onsite at Champs-Sur-Marne, France 






Description




- Implementation and administration of a virtualized software forge on Docker
- Automation of project creation
- Implementation of web application
- Website creation
- Deployment of a secured Docker Registry
- Creation of a Restful API from a database describing a road network with its traffic topology

Education




Master of Science in Computer Science and Network

-  Diplomed in 09/2018
-  Started in 09/2015
-  [ESIPE](#)

Bachelor of Science in Computer Science

-  Diplomed in 12/2017
-  Started in 08/2017
-  [University of Sherbrooke](#)

Bachelor of Science in Electrical and Industrial Computing

-  Diplomed in 09/2015
-  Started in 09/2011
-  [UPEC](#)

Skills

Programming skills



Data Mining, Functional Programming, Object Oriented Programming, Operating System, GUI, Design Pattern, Concurrent programming, Open stack, Distributed Computing, Network, Management, REST/SOAP/gRPC/GraphQL

Programming Languages



Java 13/Android/Spring/Swing, Ruby (Rails), C++/#, Python, JS/TS, Go, PHP, Assembler, Bash, Racket, HTML5/CSS3

CI/CD



Jenkins, Maven, Ant, SonarQube, Gitlab, TFS, JUnit, Mockito

Database



Postgresql, MongoDB, MariaDB, Cassandra, Redis, SQLite, MySQL

Network



Protocols, LANs/WANs/WLANs, Wireless, Cellular, Cyber security, Routing, Cryptography/Certificate

Virtualization



Docker compose/swarm, Virtual machine (Virtualbox/VMware), Kubernetes, Rancher Cattle, AWS, S3

Web server



Nginx, Apache, Tomcat, Vertx, Unicorn

Load balancing / Proxy



Haproxy, Squid

Projects

Ordogene

- [Source](#)



Description

Ordogene is a software that can be used to determine, using a genetic algorithm, the actions of a given process to maximize or minimize some resources in a minimum amount of time. These processes can be very different, such as getting ready in the morning, organizing an event or manufacturing industrial parts.

PapayaDB

- [Source](#)



Description

A self-optimized document-oriented database storing a set of value in JSON format. The project was divided in several parts implanting the database itself (with atomic document insertion), a Web server (REST) to make queries (the queries are themselves JSON documents) and a client API in Java to make requests to the REST server (a request result had to be a Java Stream). Each module must be separate and independent. It had to be delivered as modular JARs (compatible with Java9 modules).