

Curriculum Vitae | Nacer DERGAL

Personal

Contact & Social

 E-Mail dergal.nacer@outlook.fr |  Github [ndergal](#) |  LinkedIn Profile

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

Professional Experience

Cloud Developer / Full Stack Developer

 From: 02/2020 until Present

 EXFO - Onsite at Quebec, Canada 

Description



- Development of front-end web application using Angular
- Development of cloud native services using AWS, Node.js and Java
- Automating infrastructure deployments using Azure Pipelines
- Managing infrastructure as a code (IaC) using Terraform
- User authentication using Auth0 and IAM
- Storing data using MongoDB Atlas
- Working in an agile environment using BDD (Cucumber/Mocha/Karma)
- Validating services contract using Contract Testing
- Document services/API using mkdocs

Software Developer

 From: 09/2018 until 02/2020

 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

Bachelor of Science in Electrical and Industrial Computing

-  Diplomed in 09/2015
-  Started in 09/2011
-  UPEC

Skills

Programming skills



Object Oriented Programming, Cloud Computing, Operating System, GUI, Concurrent programming, Distributed Computing, Network, Data Mining, Functional Programming, Management, TDD, Computer Vision, REST/SOAP/gRPC/GraphQL/Layr

Programming Languages



Java 15/Android/Spring/Swing, C++/#, Assembler, Bash, JS/TS/Angular, Python, Ruby (Rails), Go, Racket

CI/CD



Jenkins, Azure, Gitlab, TFS, Maven, Ant, Gradle, WhiteSource, SonarQube, JUnit, Mockito, Cucumber, Mocha, Sinon

Database



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

Network



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

Virtualization/Cloud/IaC



Docker compose/swarm, Virtual machine (Virtualbox/VMware), Kubernetes, AWS, Terraform, Serverless

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).